ORDER NO. MD9812175C1

Service Manual

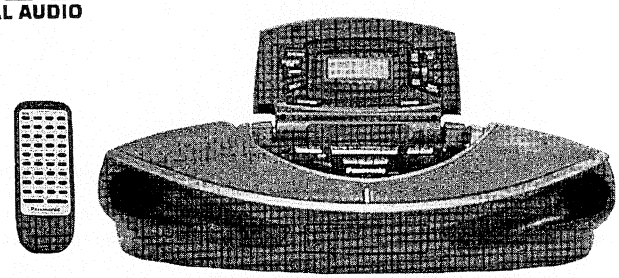
Stereo Radio Cassette Recorder

Radio Cassette

RX-ED707

COMPACT disc DIGITAL AUDIO

MASH* multi-stage noise shaping



Colour

(S) . . . . . Silver Type

Area

Suffix for Model No.	Area	Colour
(PP)	U.S.A and Canada	(S)

* MASH is a trademark of NTT.

TAPE DECK : AR2 MECHANISM SERIES
TRAVERSE DECK : RAE0152Z-M MECHANSIM SERIES

■ Specifications

■ RADIO

Frequency Range	
AM	520-1710 kHz (9 kHz steps)
FM	87.9 -107.9 MHz (200 kHz steps) 87.5-108 kHz (100 kHz steps)
Intermediate Frequency	
AM	450 kHz
FM	10.7 MHz
Sensitivity	
AM	46 dB/m/50 mW
FM	20 dB/50 mW (-3 dB limit sens.)

■ TAPE RECORDER

Track system	4 track, 2 channel, stereo
Recording system	AC bias
Erasing system	AC erase
Monitor system	Variable sound monitor
Frequency range	
Normal position	30 - 16000 Hz
High position	30 - 17000 Hz

■ CD PLAYER

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength 780 nm)
No. of channels	2 channel, stereo
Wow and flutter	Below measurable limit
D/A converter	MASH(1 bit DAC)

■ General

Power requirement	
AC	120 V, 60 Hz Power consumption: 33 W
Battery	12V (Eight R20/LR20 D size, UM-1 batteries)
Memory back-up for computer/clock	6V [Four R6/LR6 (AA, UM-3) batteries]
Speakers	
Super woofer	8 cm 6.0 Ω x 1
Full Range	8 cm 6.0 Ω x 2
Jacks	
Output	PHONES: 3.5 mm stereo (16-64 Ω)
Input	AUX IN: 3.5 mm stereo
Dimensions (W x H x D)	630 x 177 x 326 mm (Top panel closed)
Weight	About 6.1 kg without batteries

Notes :
1. Specifications are subject to change without notice.
2. Weights and dimensions shown are approximate.

⚠ WARNING

This service information is designed for experiense repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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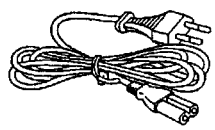
Accessories



AC power supply cord .....1 pc.

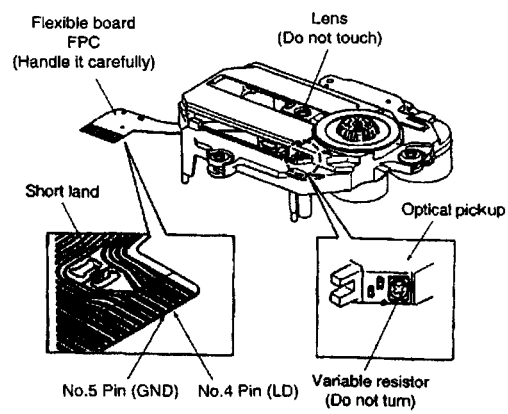
Remote control transmitter ..1 pc. (EUR644861)

Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body. So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

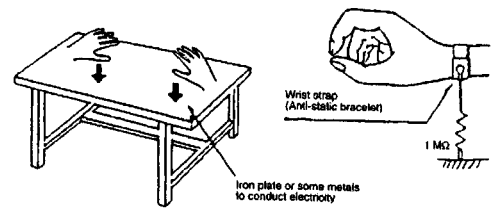
• Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC board).
   When removing or connecting the short pin, finish the job in as short time as possible.
3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



• Grounding for electrostatic breakdown prevention

1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on thearea where the traverse deck (optical pickup) is placed, and ground the sheet.



Caution :
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when Replacing the Traverse Deck:
The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.

■ Safety Precaution (This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

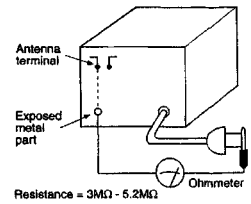


Fig. 1

• INSULATION RESISTANCE TEST

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch .
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts* . (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)
   *Note : Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

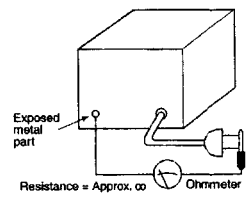


Fig. 2

BATTERY SERVICE LIFE

UM-1 (D - size) Batteries
Approx. 6 hours of Tape Recording (EIAJ).
Approx. 2.5 hours of Tape Playback (EIAJ).
Approx. 3 hours of CD Recording (EIAJ).
Approx. 2 hours of CD Playback (EIAJ).

The battery service life is measured according to the conditions set forth by EIAJ (Eelectronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.

■ Precaution of Laser Diode

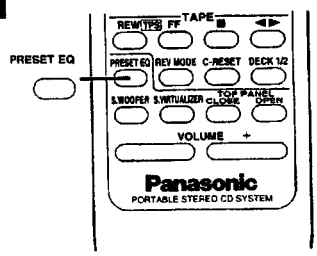
CAUTION : This unit utilizes a class 1 laser. Invisible laser radiation is emitted from the optical pick up lens.
When the unit is turned on :

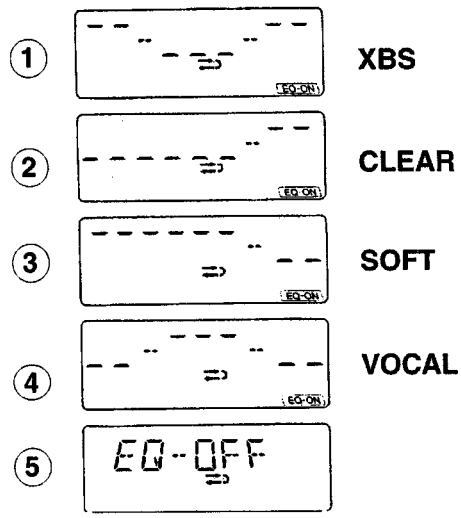
1. Do not look directly into the pick up lens.
2. Do not use optical intrusments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pick up lens.
4. Do not disassemble the optical pick up lens.
5. If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION !
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

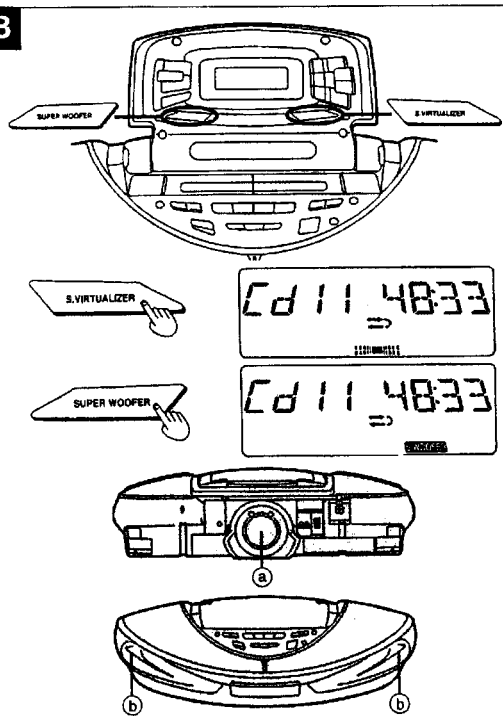
■ Changing of Sound Quality

A





B



Selecting equalizer effects A

(Only from the remote control)

Four types of sound quality can be selected.

Press [PRESET EQ] to select desired sound quality.
The displayed image of a sound quality effect changes each time the button is pressed.

① Gives added punch to rock and other music (XBS)
② Lightens pop and other music (CLEAR)
③ Softens music (SOFT)
④ Enhances vocals (VOCAL)
⑤ No sound quality effects used.

Note

- Recordings are not affected by changes in sound quality.
- The effect when listening through headphones is different to that heard from the speakers.
- Select a different sound quality if treble sounds are too strong.

Using the "live" effect (Sound Virtualizer) B

The "live" effect allows enjoyment of the 3-D feeling listening to live music. Compared with earlier surround systems, the sound virtualizer leaves middle-range sounds such as vocals clear and gives natural width and depth to music.
Sound virtualizer is effective with stereo sound.

Press [S. Virtualizer] to display " ▮▮▮▮▮▮▮▮▮ **".**

To cancel :
Press **[S. Virtualizer]** to clear the " ▮▮▮▮▮▮▮▮▮ " indicator.

Note

- The effect is not as apparent when listening through headphones.
- Cancel this effect if noise increases when listening to FM radio.
- Recordings are not affected by changes in sound quality.

Increasing the bass (Super Woofer) B

Press [SUPER WOOFER].
" S.WOOFER " lights.

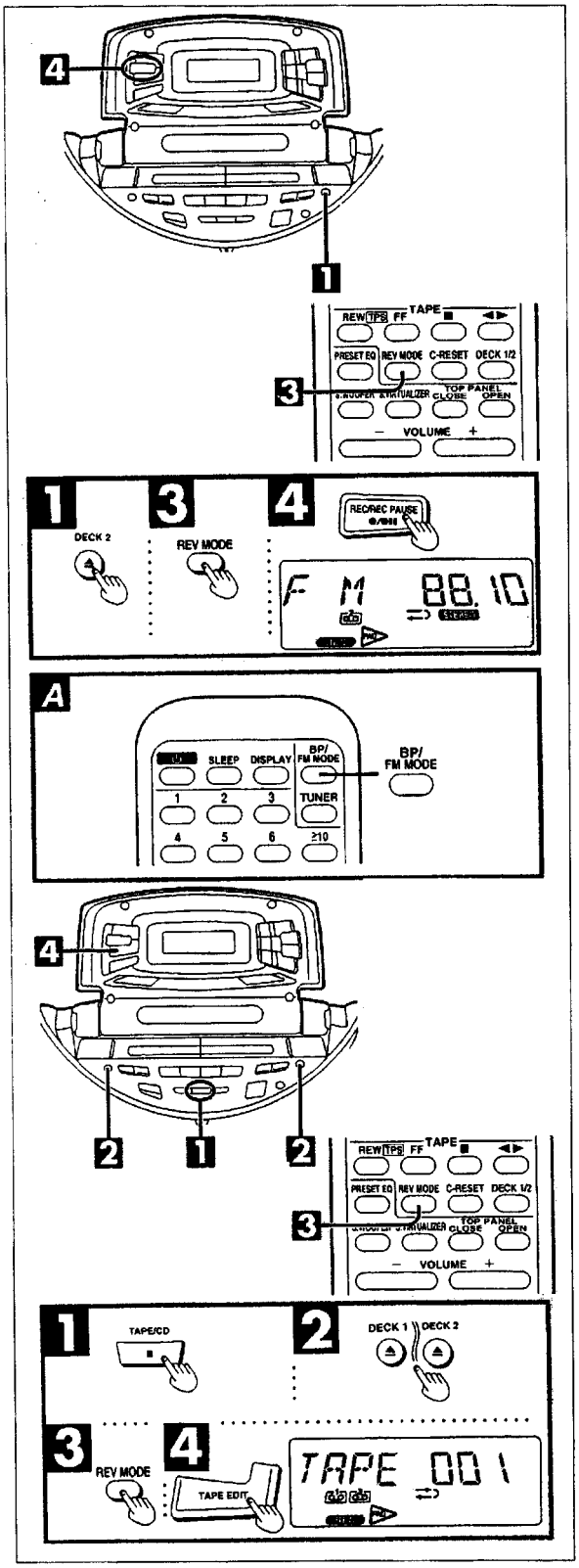
The super woofer on the back of the unit starts working and heavy bass sounds from the front ports are emphasized.
ⓐ Super woofer
ⓑ Port

To cancel :
Press **[SUPER WOFFER]**. " S.WOOFER " goes out.

Note

- The effect when listening through headphones is different to that heard from the speakers.
- Recordings are not affected by changes in sound quality.

■ Recording Radio Programs and Tape to Tape



Recording Radio Programs

■ **Press [⏏DECK 2] and load the cassette with the side to be recorded facing up.**

■ **Select desired radio station.**

■ **Press [REV MODE] on the remote control to select the mode.**

⇄ (⇄) : Records onto both sides, starting with the side facing up.

→ : Records one side only.

■ **Press [●/● II REC / REC PAUSE].**

"FWD REC" is displayed and recording begins. "REV REC" is displayed when recording begins while " ◁ " is displayed.

To stop recording :
Press [■TAPE / CD].

To stop recording temporarily :
Press [●/● II REC / REC PAUSE].
To resume recording, press [●/● II REC / REC PAUSE].

When there is too much interference during AM recording A

(Availabe only from the remote control)

Press [BP / FM MODE].
Select "bP1" or "bP2" whichever yields less noise.

Recording Tape to Tape

■ **Press [■ TAPE / CD] to select the cassette mode.**

TAPE <——> CD
(The display changes each time the button is pressed.)

■ **Insert the playback cassette into deck 1 and the recording cassette into deck 2.**

■ **Press [REV MODE] on the remote control to select the mode.**

⇄ (⇄) : Records from the side facing up to the opposite side and automatically stops.

→ : Records only one side of the cassette and automatically stops.

■ **Press [TAPE EDIT].**

Play on deck 1 and recording on deck 2 begin simultaneously.

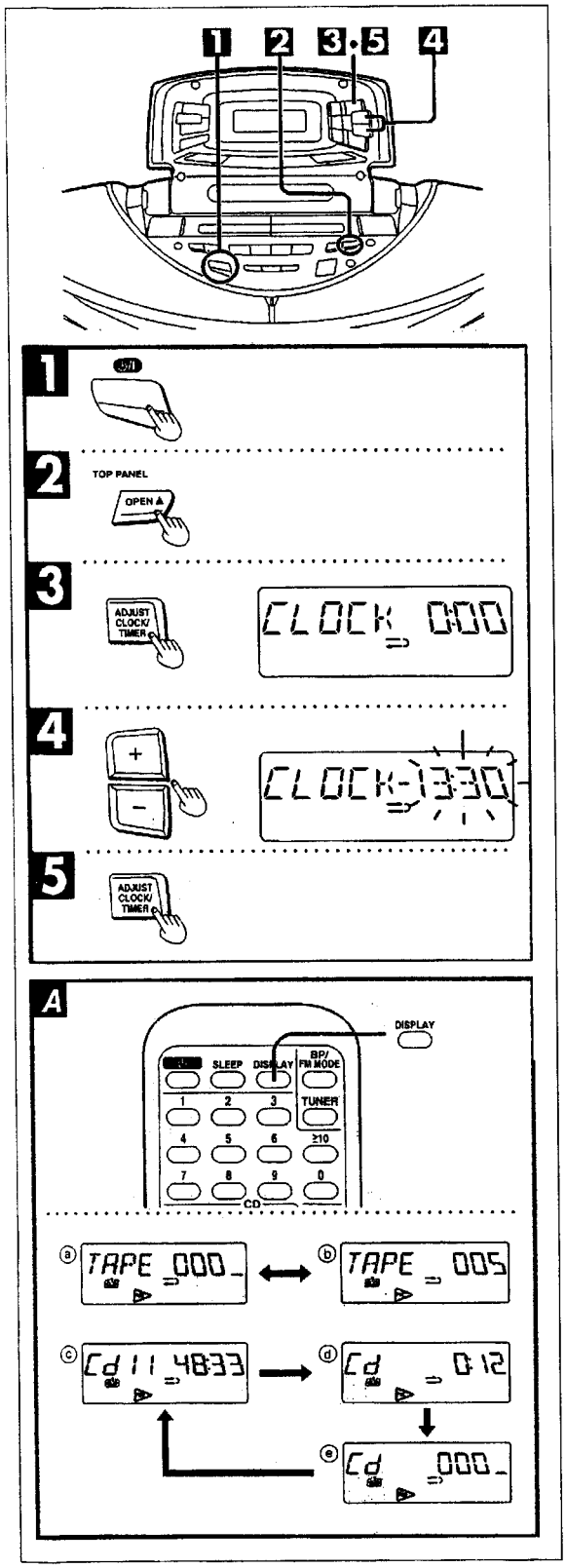
To stop recording :
Press [■TAPE / CD].

To temporarily stop recording :
Press [●/● II REC / REC PAUSE].
To resume recording, press [TAPE EDIT].

Note

- This unit is not equipped with high speed recording.
- Different types of tapes can be used at the same time.

■ Setting Clock and Selecting Display



Setting the Clock

The clock has a 24-hour display.
Example : Setting the clock to 13:30;

1 Press [⏻/I].
(This turns the unit on.)

2 Press [TOP PANEL OPEN ▲] to open top panel.

3 Press [ADJUST, CLOCK / TIMER].
"CLOCK" is displayed.

4 Press [+] or [-] to show desired time.
The time display can be changed in one minute units by tapping the buttons, and quickly by holding down the buttons.

5 While the time display is flashing, Press [ADJUST, CLOCK / TIMING].
The clock now starts operating, and the display returns to its original status.

To display the clock (When the unit is on): A
(Available only from the remote control)

Press [DISPLAY] when the unit is on.

Selecting the Display A

(Only from the remote control)

Press [DISPLAY] when the unit is on.
The display changes each time the button is pressed.

- When using the cassette
  ⓐ Tape counter
  ⓑ Present time

- When using the radio, CD or external unit
  ⓒ Frequency/play status
  ⓓ Present time
  ⓔ Tape counter

"— — —" appears on the tape counter display when a cassette has not been inserted.

■ Self Diagnostic Function

Display procedure

Cassette tapes to be read

- Cassette tape with erasure-prevention tab removed on one side only (A or B).
- Music cassette tape with erasure-prevention tabs intact on both sides (A and B).

Note: In either case, rewind the cassette tape to about the middle.

To enter the self-diagnostic mode

1. Connect the unit to the power supply and turn the power on.
2. Set reverse mode to " ⇆ ". (Use the remote control attached with main unit, since the reverse mode cannot be set from the main unit.)
3. Check that there is no cassette tape in the compartment.
4. Hold down the STOP / FUNCTION (■) for at least 2 seconds, and then keep pressing together with the tape deck FF button for another 2 seconds. "T" will then appear on the LCD display. (This indicates that the unit has switched from normal display mode to self-diagnostic mode.)

To view the display

- **To view the self-diagnostic display for the DECK 1 and DECK 2:**

1. Load a cassette tape into tape DECK 1 with the erasure-prevention tab removed on one side only (A or B).
2. Press the FF button, perform the fast forward winding operation for about 5 seconds and then stop winding using the stop button (■).
3. Remove the cassette tape, and load a music cassette (containing at least 4 seconds of music and both erasure-prevention tabs intact.
4. Press the play button (◀▶). When play begins, press either the FF button or the REW , and perform the TPS (Tape Program Search) operation in the direction in which the music is recorded.
5. After TPS operation has completed (when the beginning of music is found and the unit switches back to play mode), stop the tape by pressing the Stop button (■).
6. Repeat steps 1 ~ 5 above for DECK 2.
7. If an error is detected when the tape deck stop button (■) is pressed, a self-diagnostic display appears on the LCD display. (If no error occurs, the LCD display shows the tape counter.). If there is more than one error, the error display changes each time the tape deck Stop button (■) is pressed. To change between the self-diagnostic display for tape DECK 1 AND tape DECK 2, press the tape deck select button (DECK1/2).

- **To view the self-diagnostic display for the CD player :**

1. Press the CD tray Open / Close button (▲) to open the CD tray.
2. After the tray has been fully open for about 5 seconds, press the CD tray Open / Close button (▲) again to close the CD tray.
3. Press the stop button, self-diagnostic display on the LCD display (If no error occurs, LCD display shows "T").

Note: If this procedure is performed for tape DECK 1, DECK 2 and the CD player and an error occurs for each, the LCD display alternates between the self-diagnostic codes for tape DECK 1 and 2 and the CD player each time the Stop button (■) is pressed. (If there is no error, the LCD display shows the tape counter.)

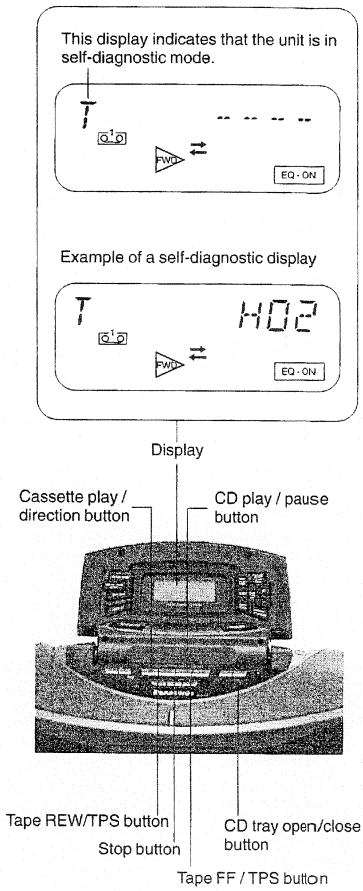
To return to normal display mode

- Press the power switch once to turn the power off, then press it again to turn the power back on. To view the self-diagnostic display once again, perform steps 1 ~ 4 of "Entering self-diagnostic mode" above, then press the Stop button (■).

Clearing the self-diagnostic memory

- The self-diagnostic error code is stored in memory. To clear memory, first correct the error, and then remove the batteries (including the clock / memory battery) and disconnect the AC power supply. Then press and hold down the power supply button for at least 5 seconds.
- Always be sure to clear memory after an error has been corrected.

Display location



Display content

Note : Items marked with (*) are automatically displayed, and do not require the procedure describe in the section "Viewing the display".

Display Code	Symptom or condition	Cause and method of correction
*U01	When operating on batteries, power goes off immediately after being turned on.	The batteries are depleted. Replace with new batteries.
*U02	Power cannot be switched on.	Check the power cord (AC) or insert fresh batteries.
H01	Cassette deck does not operate correctly.	Faulty cassette deck mechanism mode detection switch (DECK 1 : S951, DECK 2: 971), reel motor and plunger. (Check and replace)
H02	Units does not record, or the unit goes into recording mode even when the erasure prevention tabs have been removed from the cassette.	Faulty erasure-prevention tab detection switch (S974, S975) or short circuit. (Check and replace)
H03	Tape does not play, even when the tape deck play button is pressed. The motor operates when the tape deck play button is pressed, even when no cassette is loaded in the deck.	Faulty tape detection switch (DECK 1: S952, DECK 2: S972) or short-circuit. (Check and replace).
H15	The CD tray closes immediately after it is opened.	Faulty contact of the CD tray open detection switch (SW790). (Check and replace)
H16	The CD tray opens immediately after it is closed.	Faulty contact of the CD tray close detection switch (SW791). (Check and replace)
F01	When the play button is pressed, the tape advances only slightly and then stops.	Reel pulse error. (Faulty Hall IC) (Check and replace)
F02	TPS (Tape Program Search) does not work.	Faulty TPS signal detection or faulty plunger control. (Check and replace mechansim control IC)
F15	When the CD Play button is pressed when either the power is off, or from some function other than CD, it takes excessive time (10 seconds or more) for the CD to play.	Faulty traverse inner circumference position detection switch (S701). (Check and replace)
*F26	When the CD operation mode is selected by pressing the Stop button (■), "F26" is shown on the LCD display, and a CD does not play when it has been loaded.	Communication error between servo-processor IC and microprocessor IC. (Check and replace)
F75	When a CD is loaded, "NO DISC" is displayed and the CD does not play.	Faulty CD circuit power supply. (Faulty power supply IC or CD circuit power supply system.) (Check and replace). Flexible circuit board has become disconnected or broken wiring. (Check and replace) Faulty servo-processor IC. (Check and replace)

Operation Checks and Main Component Replacement Procedures

"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the Parts No. on the page of "Main Component Replacement Procedures", if necessary.

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2. Checking of the Servo, Main and Tuner P.C.B. 9
• Main Component Replacement Procedures
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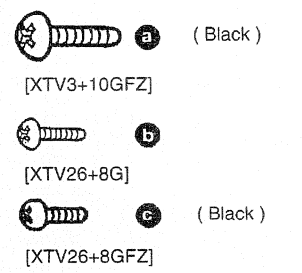
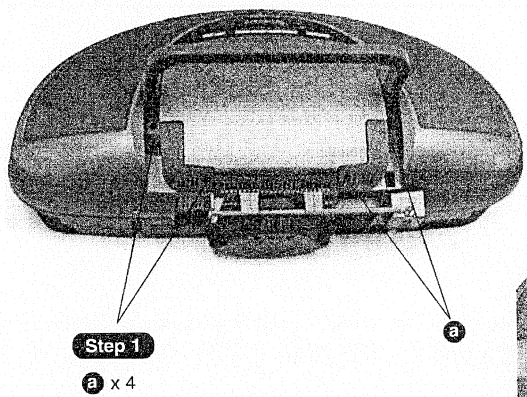
2. Replacement for the Travese Deck ..... 11~ 12

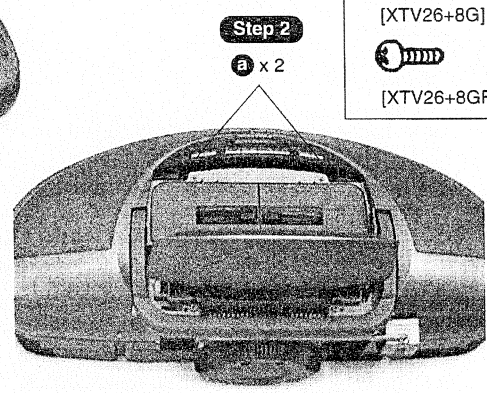
Warning : This product uses a laser diode. Refer to caution statement on page 3.

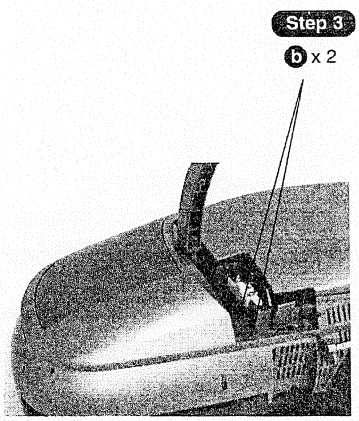
Checking Procedure For Each Major P.C.B

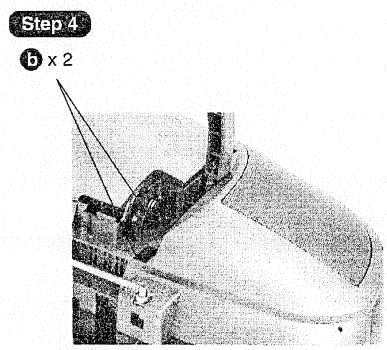
1. Checking for the PANEL P.C.B.



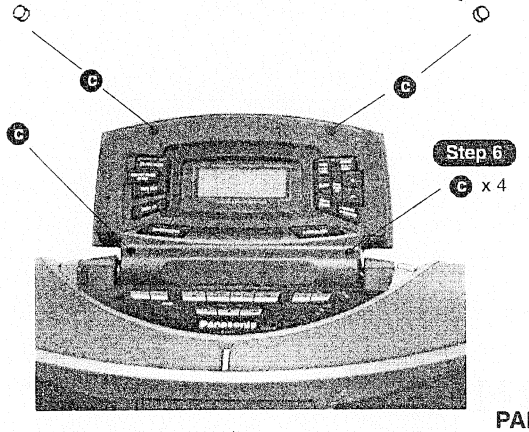




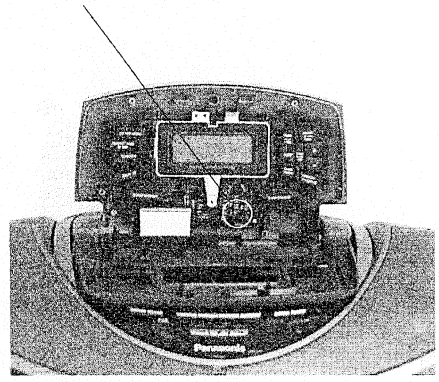




Step 5
Remove the rubber.

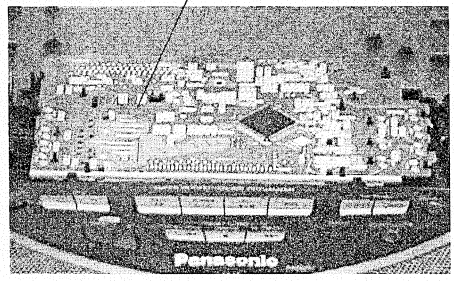


Step 7
Release the claw, remove the PANEL P.C.B. and place the P.C.B. as shown below.



PANEL P.C.B

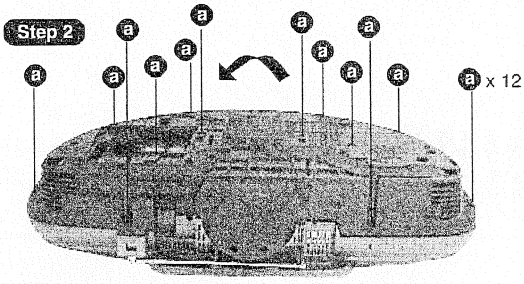
- Check the PANEL P.C.B. as shown.



2. Checking for the SERVO, MAIN and TUNER P.C.B.

[XTV3+20G]

Step 2

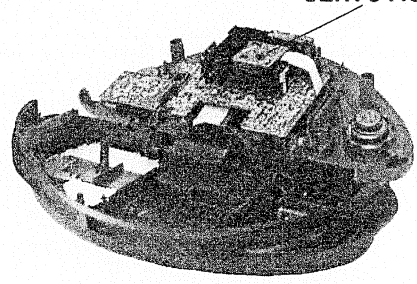


Step 1
Remove the battery cover.

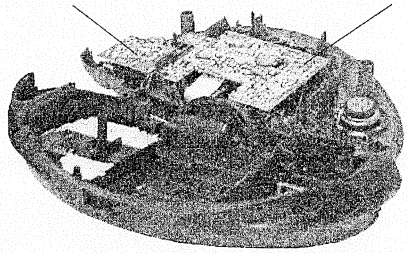
Step 3
Lift up the bottom cabinet and place it as shown below.

- Check the SERVO P.C.B. as shown.

SERVO P.C.B.



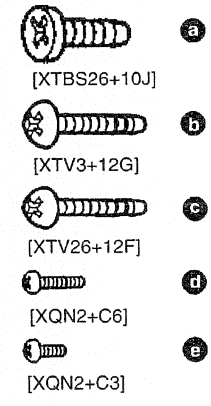
TUNER P.C.B. MAIN P.C.B.



Step 4
Lift up the CD traverse unit and place it as shown on the left.

- Check the MAIN P.C.B. and TUNER P.C.B. as shown.

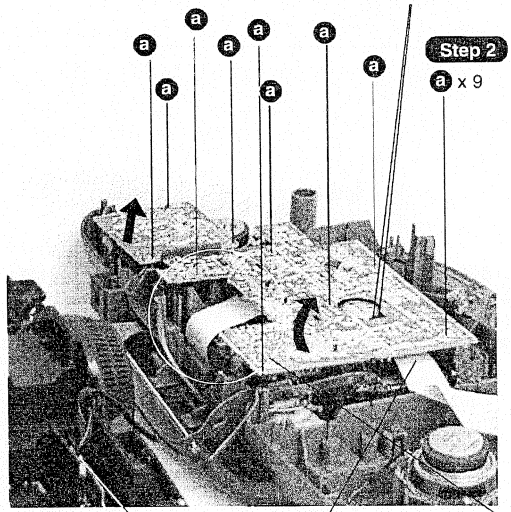
1. Replacement for the motor assembly.



Step 1
Remove the bottom cabinet.

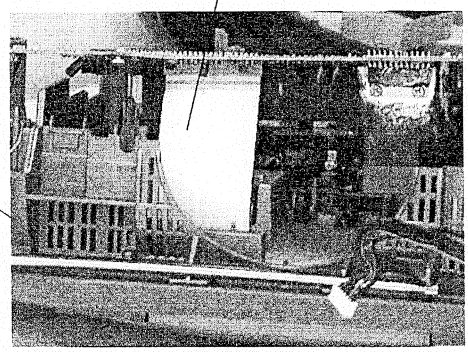
Step 3
Desolder the two wires from the motor terminal.

Step 2
a x 9

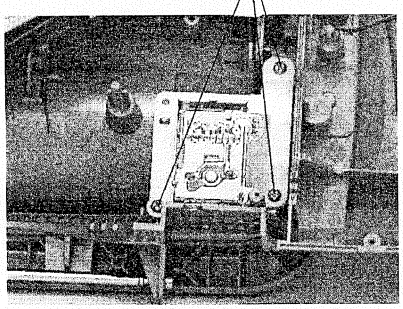


Step 4
Remove the connectors CP901 and CS702.

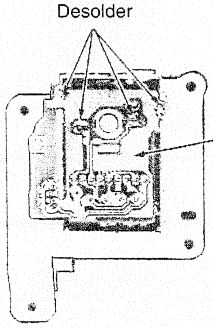
Step 5
Remove the FFC wire fromCS8001 and remove the MAIN P.C.B. together with TUNER P.C.B.



Step 6
b x 3



Step 7
Desolder



Step 8
Remove the motor P.C.B.

Step 9
c X 3

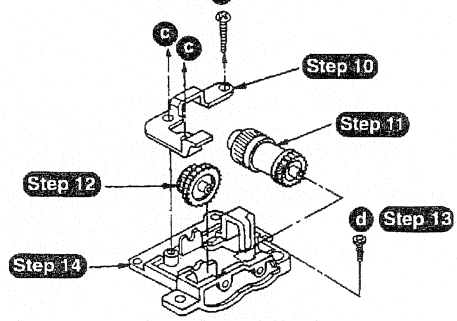
Step 10

Step 11

Step 12

Step 13

Step 14



Step 15

Step 16

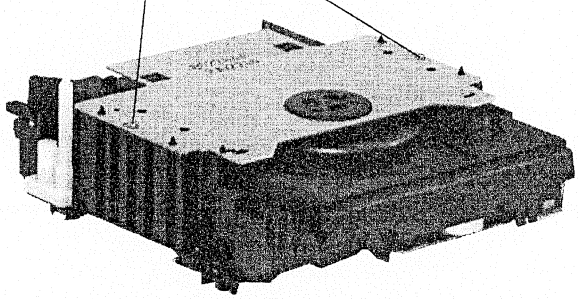
Motor assembly

2. Replacement for the traverse deck.

[XTN26+6G]

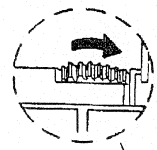
Step 1

ⓐ x 2



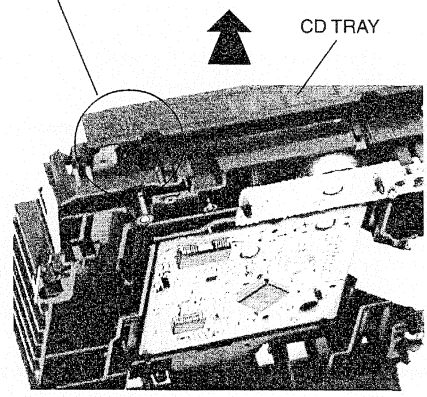
Step 2

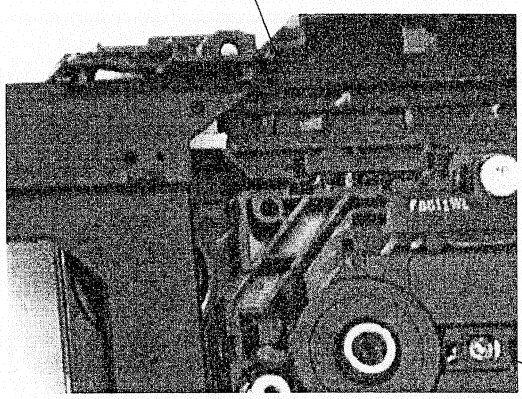
Rotate the gear.



Step 3

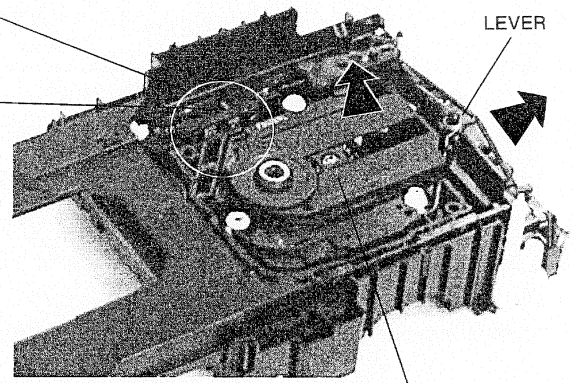
Pull out the CD tray.





Step 4

Release the claw and pull the lever.



Step 5

Take out the CD traverse unit.

CD TRAVERSE UNIT

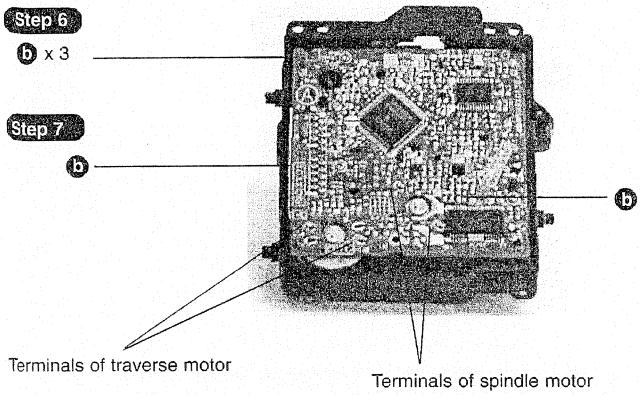
[XTN2+6G]

Step 6

ⓑ x 3

Step 7

ⓑ



Step 8

Desolder 2 terminals of spindle motor.

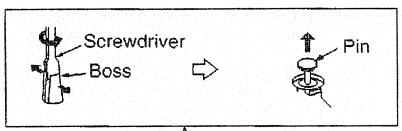
Step 9

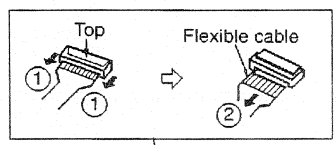
Desolder 2 terminals of traverse motor.

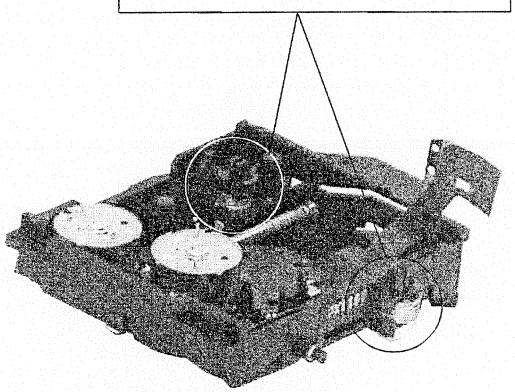
Step 10

Remove the flexible cable from CN701.

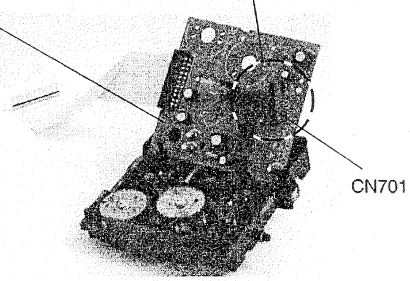
• Removal of the flexible cable.
Push the top of the connector in the direction of arrow ① and pull out the flexible cable in the direction of arrow ②.





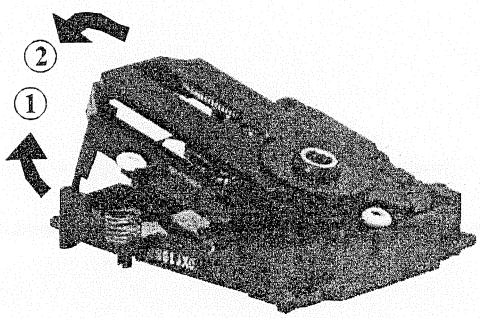


SERVO P.C.B.

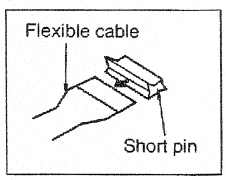


Step 11

Widen 2 bosses by using a flat tip screwdriver and remove 2 pins.



Note :
Insert a short pin into the flexible cable for traverse unit.



Step 12

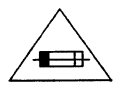
Remove the Traverse Deck Ass'y in the direction of arrow ① follow by ② .

■ Schematic Diagram

NOTES :

- **S701** : Rest Switch
- **S801** : Timer Adjust Switch
- **S802** : Memory / Set Switch
- **S803** : Timer Fader Switch
- **S804** : Sleep Switch
- **S805** : Tuning / Time Set Switch (decrease)
- **S806** : Tuning / TIme Set Switch (increase)
- **S807** : Record / Play Timer Switch
- **S808** : CD Rec Mode Switch
- **S809** : Record / Record Pause Switch
- **S810** : Tape Edit Switch
- **S811** : Deck 1/2 Switch
- **S812** : Super Woofer Switch
- **S813** : Sound Virtualizer Switch
- **S951** : Mode Switch
- **S952** : Cassette Tape Detect Switch
- **S953** : CrO_2 Tape Detect Switch
- **S971** : Mode Switch
- **S972** : Cassette Tape Detect Switch
- **S973** : CrO_2 Tape Detect Switch
- **S974** : Reverse Side Record Prevention Tab Detect Switch
- **S975** : Forward Side Record Prevention Tab Detect Switch
- **S1001** : CD OPEN / CLOSE Switch
- **S1002** : Deck 2 Eject Switch
- **S1003** : Cobra Open Switch
- **S1004** : Cobra Close Switch
- **S1005** : Volume Control Switch (decrease)
- **S1006** : Volume Control Switch (increase)
- **S1007** : Deck 1 Eject Switch
- **S1008** : Power Switch
- **S1009** : CD / Tape Stop Switch
- **S1010** : Auxillary Switch
- **S1011** : CD Play / Pause Switch
- **S1012** : Tuner Band Select Switch
- **S1013** : Tape Play Switch
- **S1014** : Tape Forward Switch
- **S1015** : Tape Rewind Switch
- **SW790** : CD Tray Open Detect Switch
- **SW791** : CD Tray Close Detect Switch
- **SW901** : AC / Battery Select Switch (JK901)

CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F901 & F902, 3.15A 125V FUSE.**



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

: +B line
: AM signal line
: AM/FM signal line
: Main signal line
: Playback signal line
: Record signal line
: CD signal line
: FM signal line
: AM OSC signal line
: AUX signal line

- Battery Current consumption:

Volume min	375 mA (FM)	Volume max	1220 mA (FM)
	375 mA (AM)		860 mA (AM)
	395 mA (TAPE)		1720 mA (TAPE)
	515 mA (CD)		1900 mA (CD)

Measurement condition:
Radio : FM 60 dB, 30% mod
AM 74 dB/m, 30% mod
Tape : 315 Hz, 0dB
CD : 1kHz, 0dB

- The voltage value and waveforms are the reference voltage of this unit m d by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark ..... Playback
(( )) ..... CD
< > ..... FM
( ) ..... AM

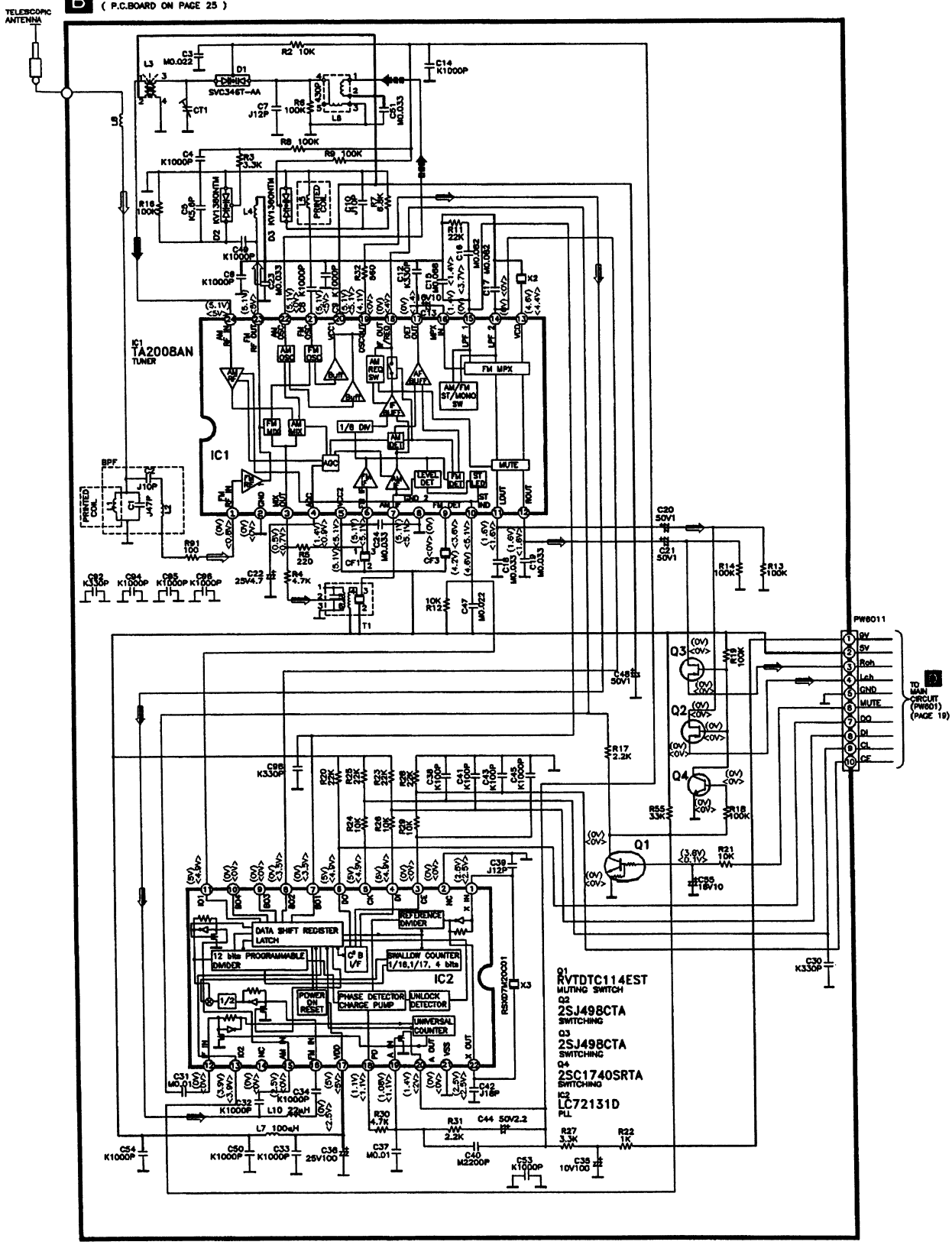
Caution !
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
•Cover the parts boxes made of plastics with aluminium foil.
•Put a conductive mat on the work table.
•Ground the soldering iron.
•Do not touch the pins of IC, LSI or VLSI with fingers directly.

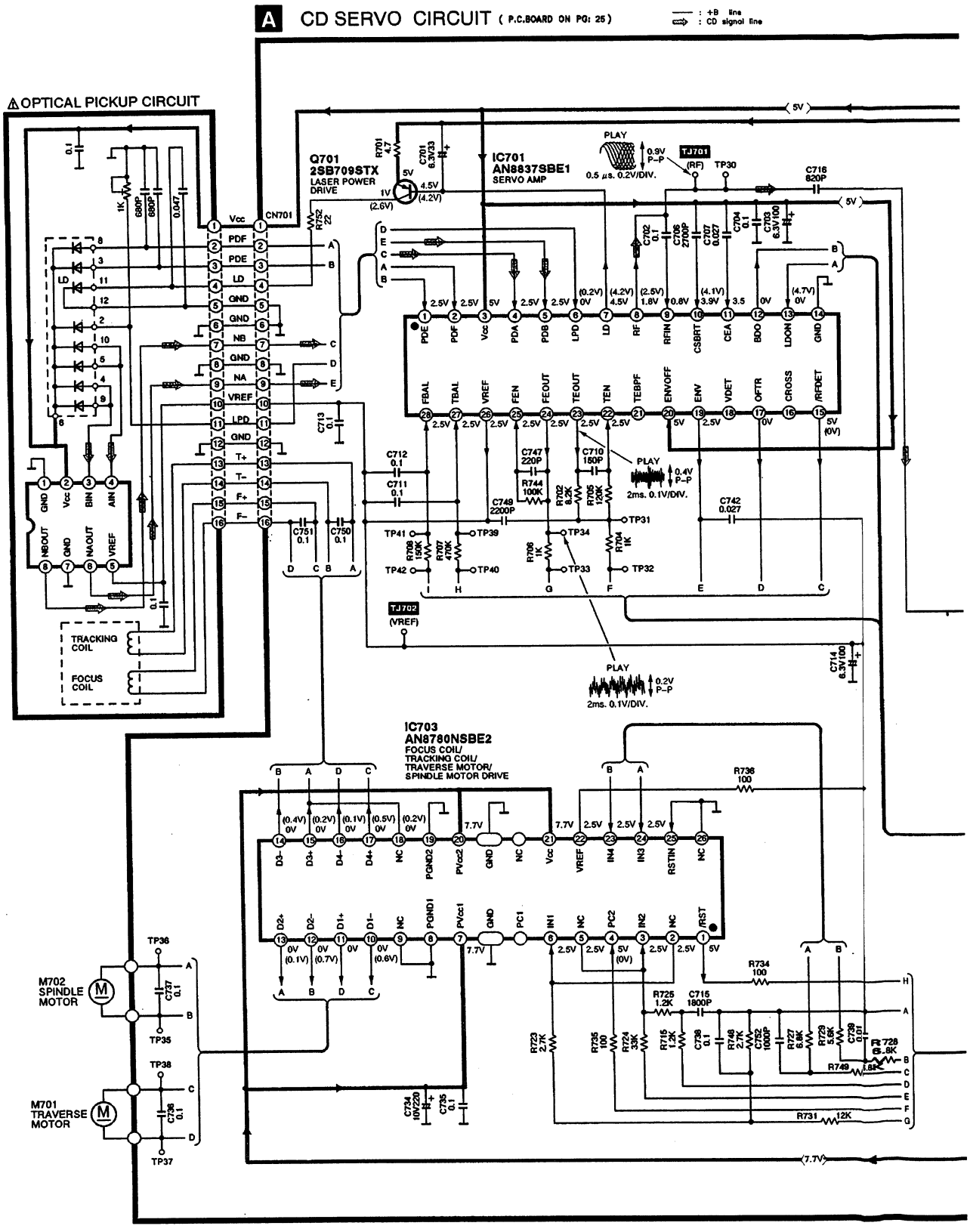
•Importance safety notice:
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

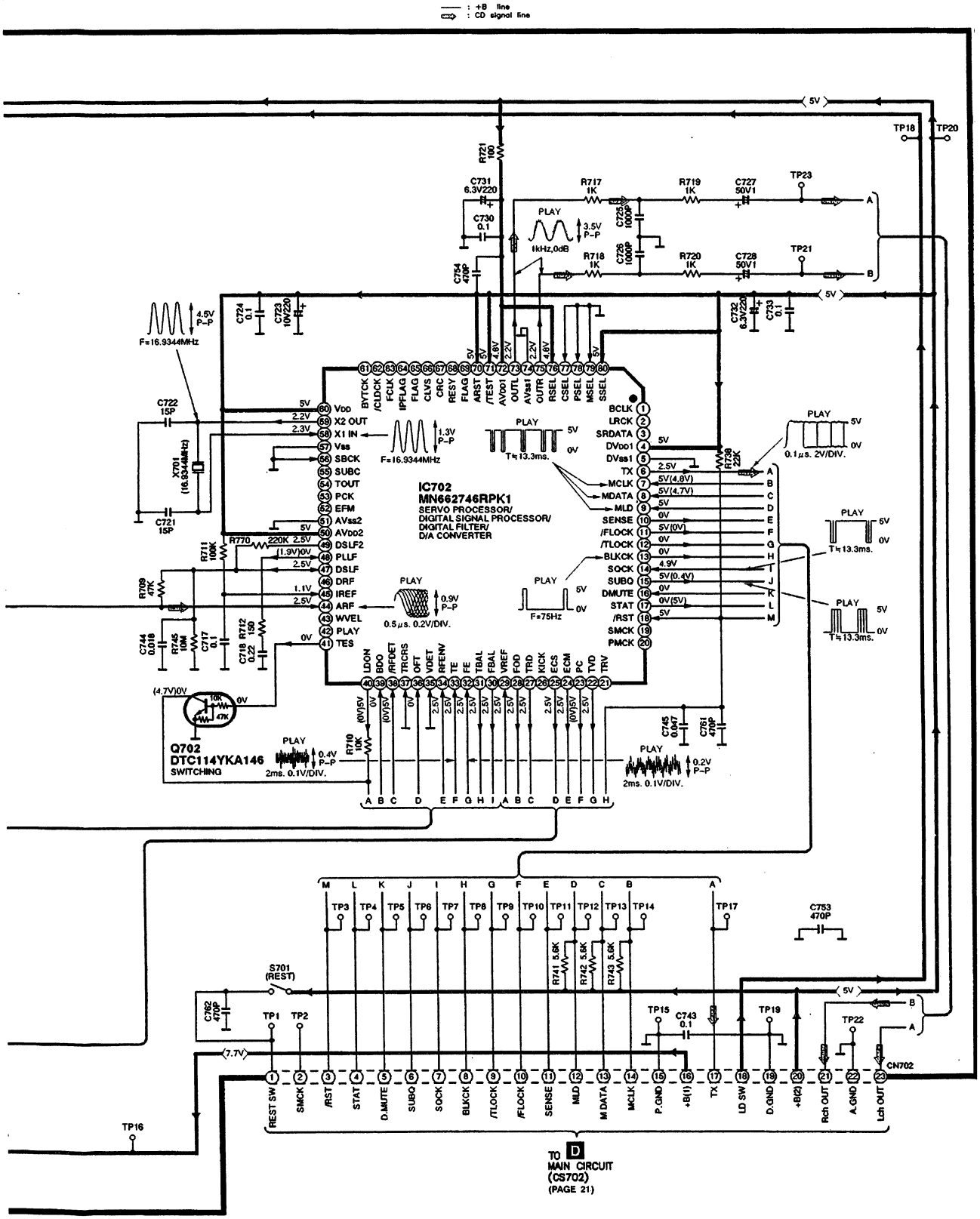
•This schematic diagram may be modified at anytime with the development of new technology.

——— : +B line ■■▶: AM OSC signal line ▬▶ : AM signal line ⟹ : FM/AM signal line ⇨ : FM signal line

B TUNER CIRCUIT
(P.C.BOARD ON PAGE 25)



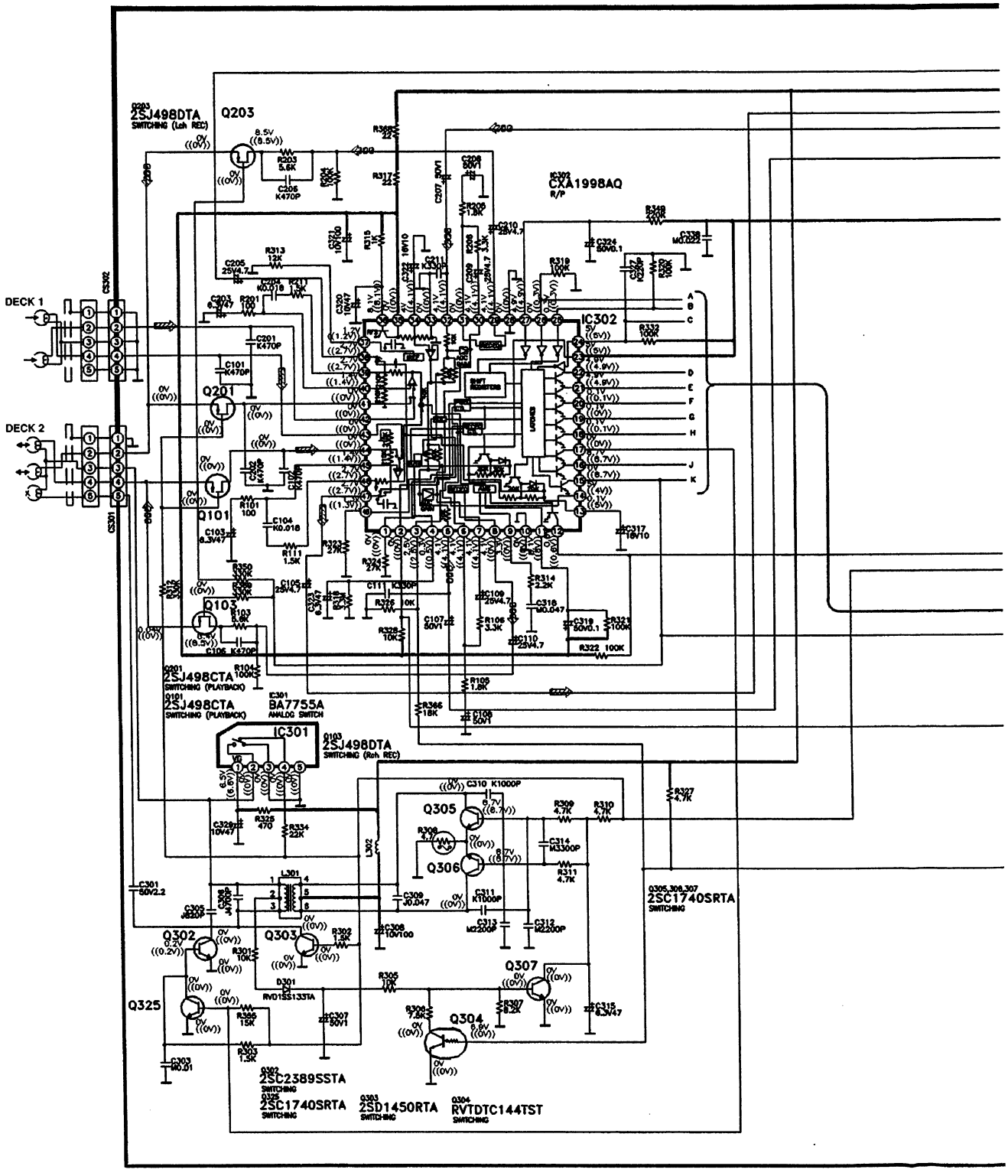

A CD SERVO CIRCUIT (P.C.BOARD ON PG: 25)
: +B line
: CD signal line
OPTICAL PICKUP CIRCUIT
Q701
2SB709STX
LASER POWER
DRIVE
IC701
AN8837SBE1
SERVO AMP
IC703
AN8780NSBE2
FOCUS COIL/
TRACKING COIL/
TRAVERSE MOTOR/
SPINDLE MOTOR DRIVE
CN701
TRACKING
COIL
FOCUS
COIL
M702
SPINDLE
MOTOR
M701
TRAVERSE
MOTOR
PLAY
0.9V
P-P
0.5 µs. 0.2V/DIV.
PLAY
0.4V
P-P
2ms. 0.1V/DIV.
PLAY
0.2V
P-P
2ms. 0.1V/DIV.
5V
7.7V


: +B line
: CD signal line
IC702
MN662746RPK1
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
Q702
DTC114YKA146
SWITCHING
S701
(REST)
TO D
MAIN CIRCUIT
(CS702)
(PAGE 21)
CN702

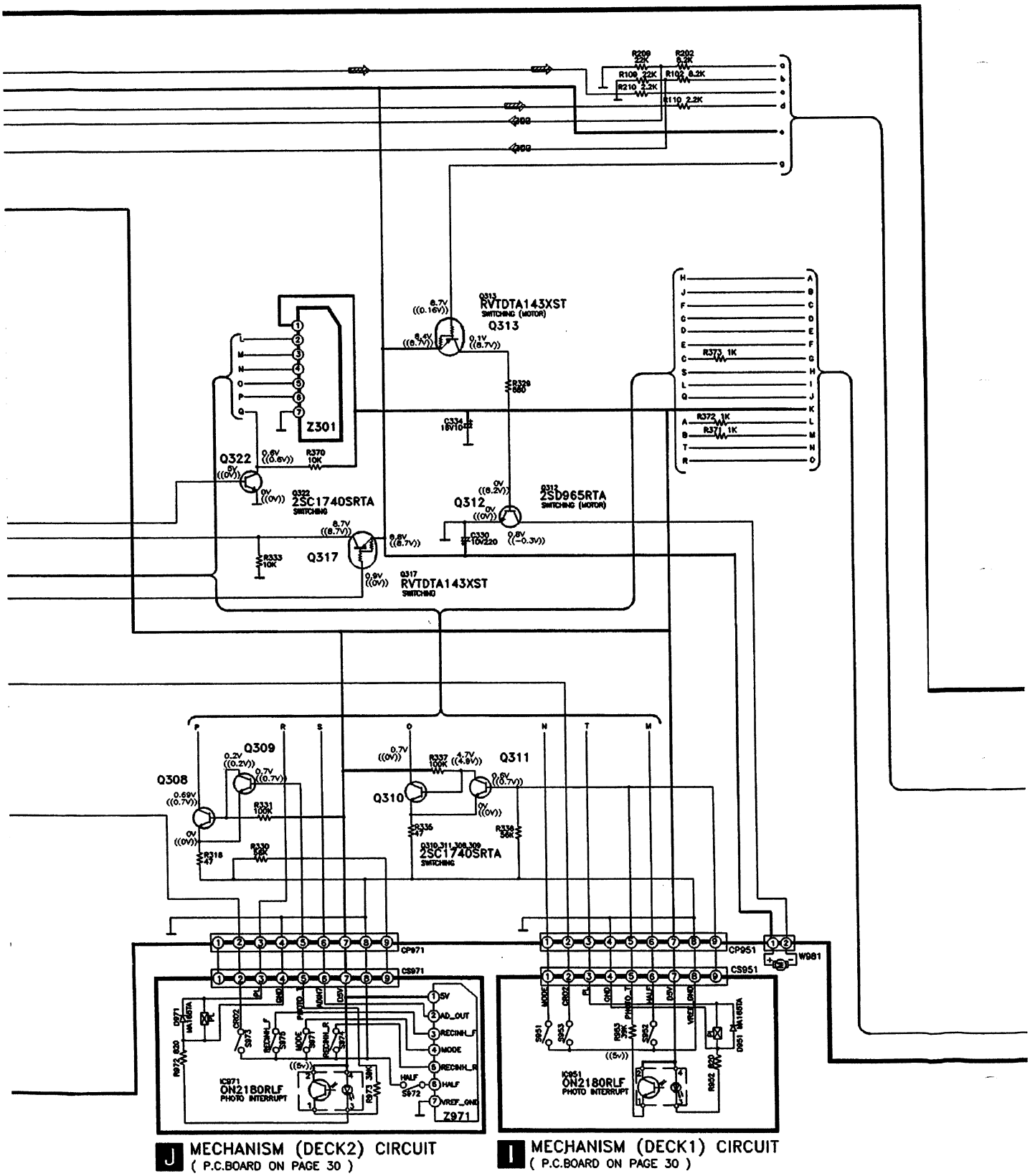
D MAIN CIRCUIT

(P.C.BOARD ON PAGE 26)

——: +B line : Record signal line : Playback signal line

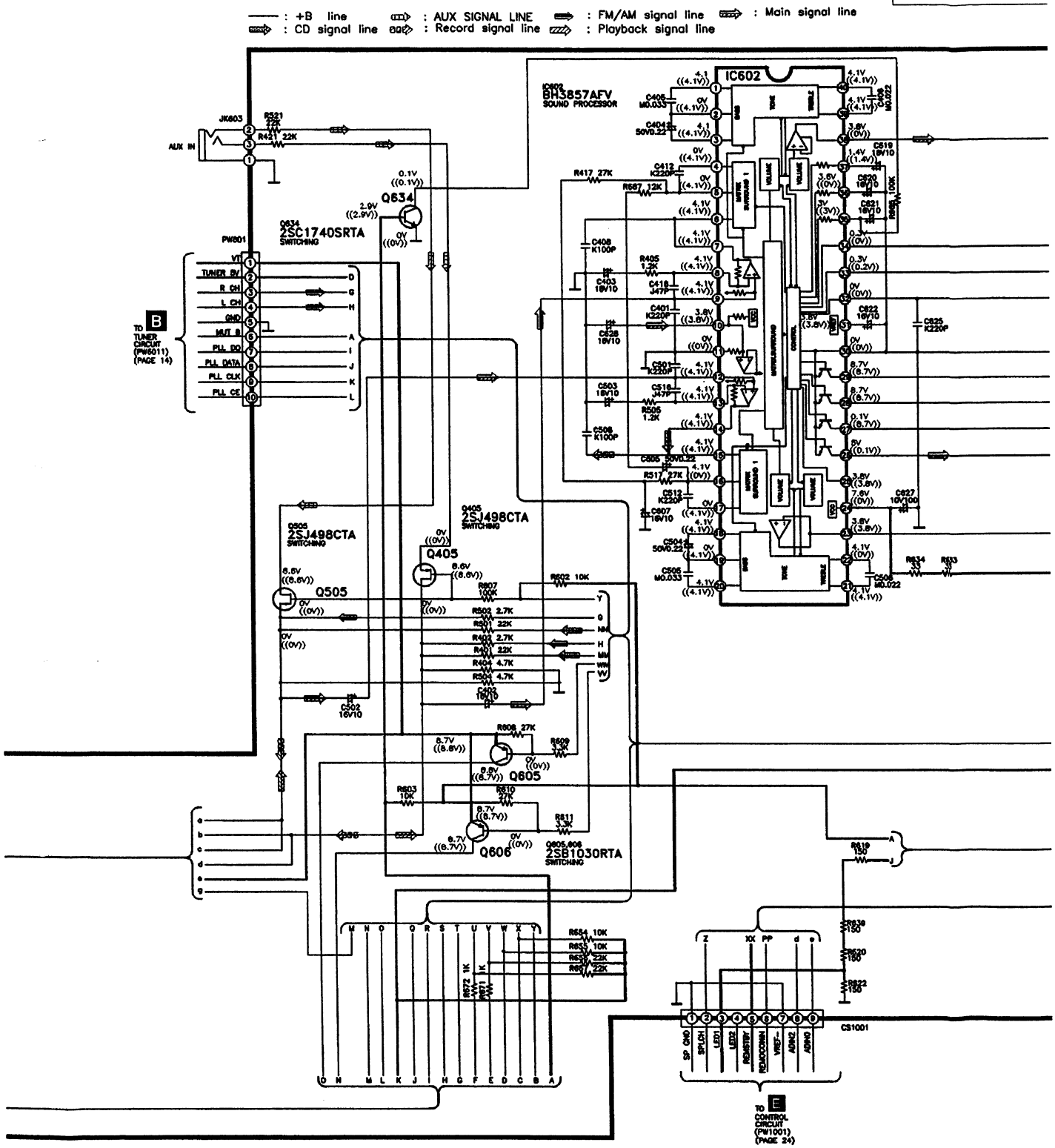


—— : +B line ▭▭▷ : Record signal line ▭▭▷ : Playback signal line

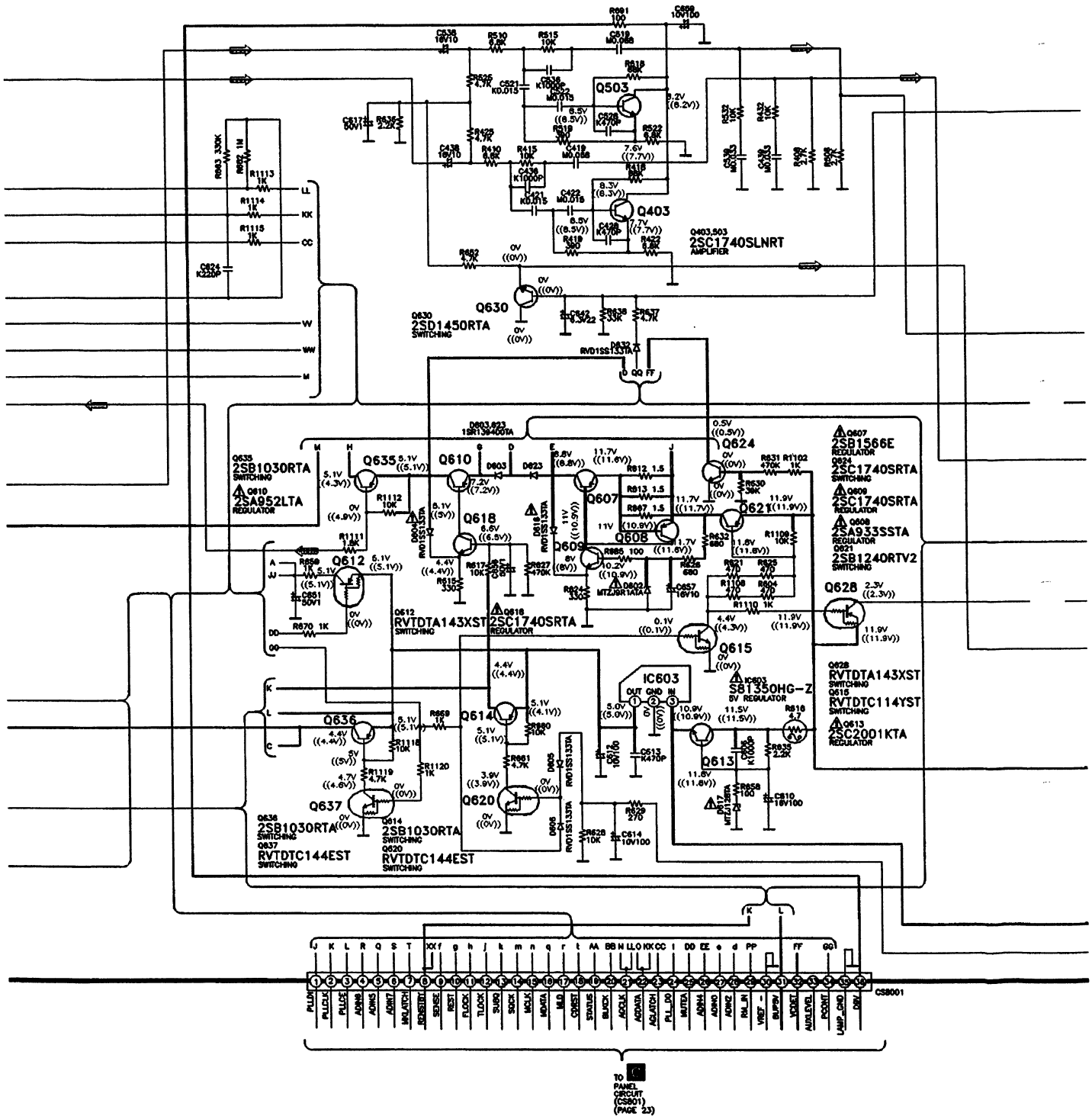


J MECHANISM (DECK2) CIRCUIT
(P.C.BOARD ON PAGE 30)

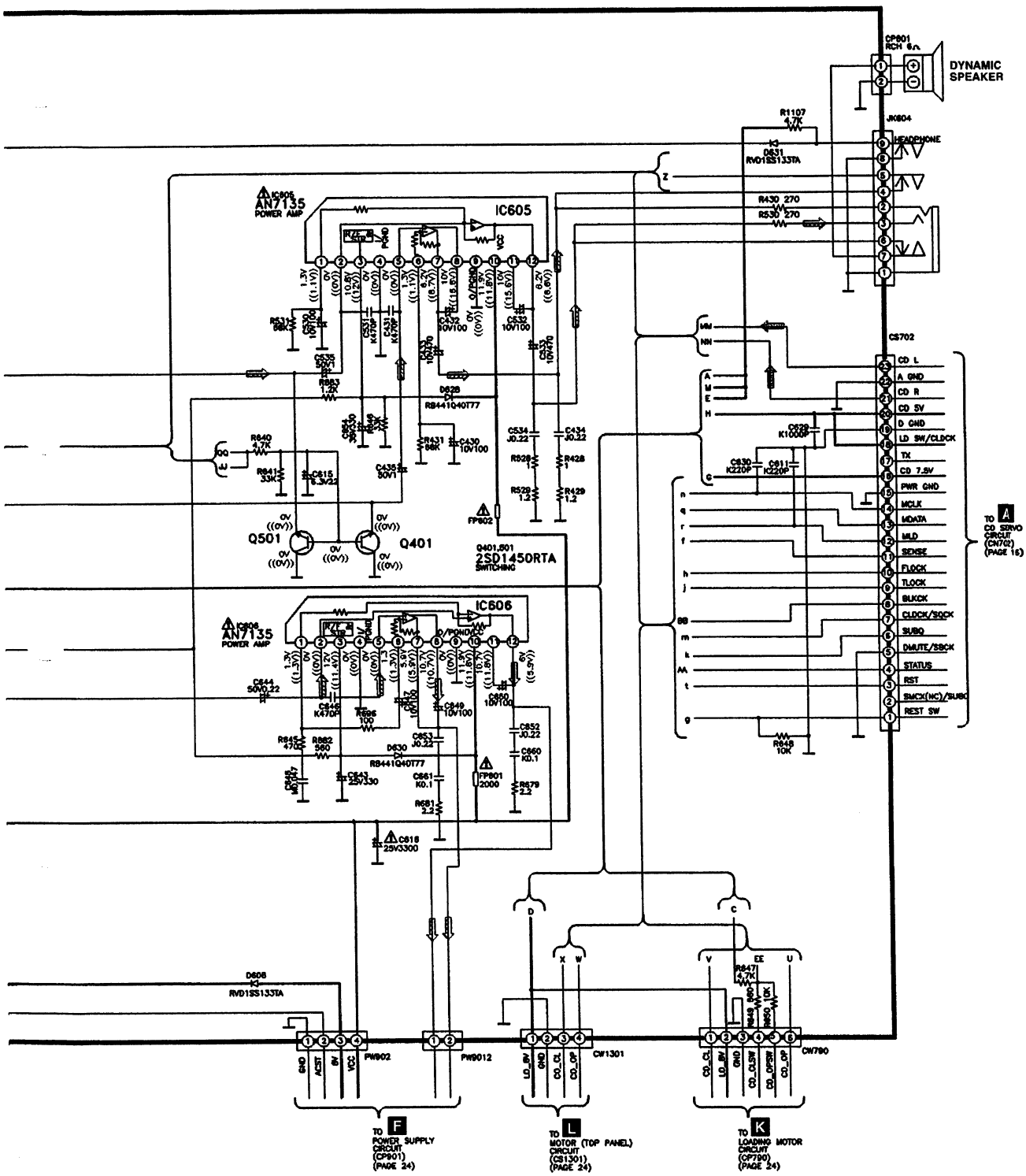
I MECHANISM (DECK1) CIRCUIT
(P.C.BOARD ON PAGE 30)


: +B line
: AUX SIGNAL LINE
: FM/AM signal line
: Main signal line
: CD signal line
: Record signal line
: Playback signal line
IC602
BH3857AFV
SOUND PROCESSOR
Q634
2SC1740SRTA
SWITCHING
Q405
2SJ498CTA
SWITCHING
Q505
2SJ498CTA
SWITCHING
Q605
Q606
Q805,806
2SB1030RTA
SWITCHING
JK603
AUX IN
PW801
TUNER 8V
R CH
L CH
GND
MUT B
PLL DO
PLL DATA
PLL CLK
PLL CE
TO B TUNER CIRCUIT (PW6011) (PAGE 14)
CS1001
TO E CONTROL CIRCUIT (PW1001) (PAGE 24)

—— : +B line ⇨ : Main signal line ⇨ : CD signal line

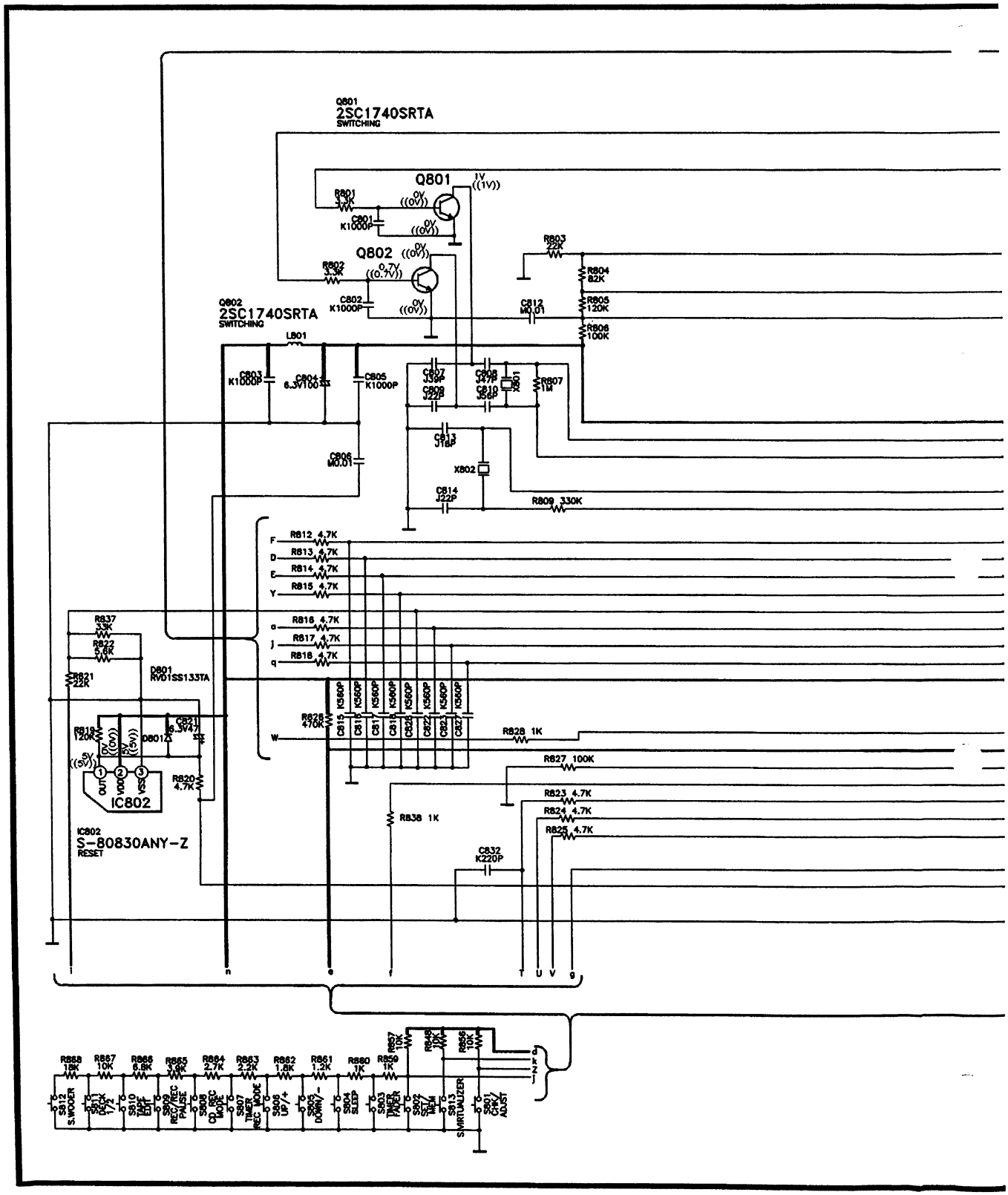


—— : +B line ⇨ : Main signal line ⇨ : CD signal line

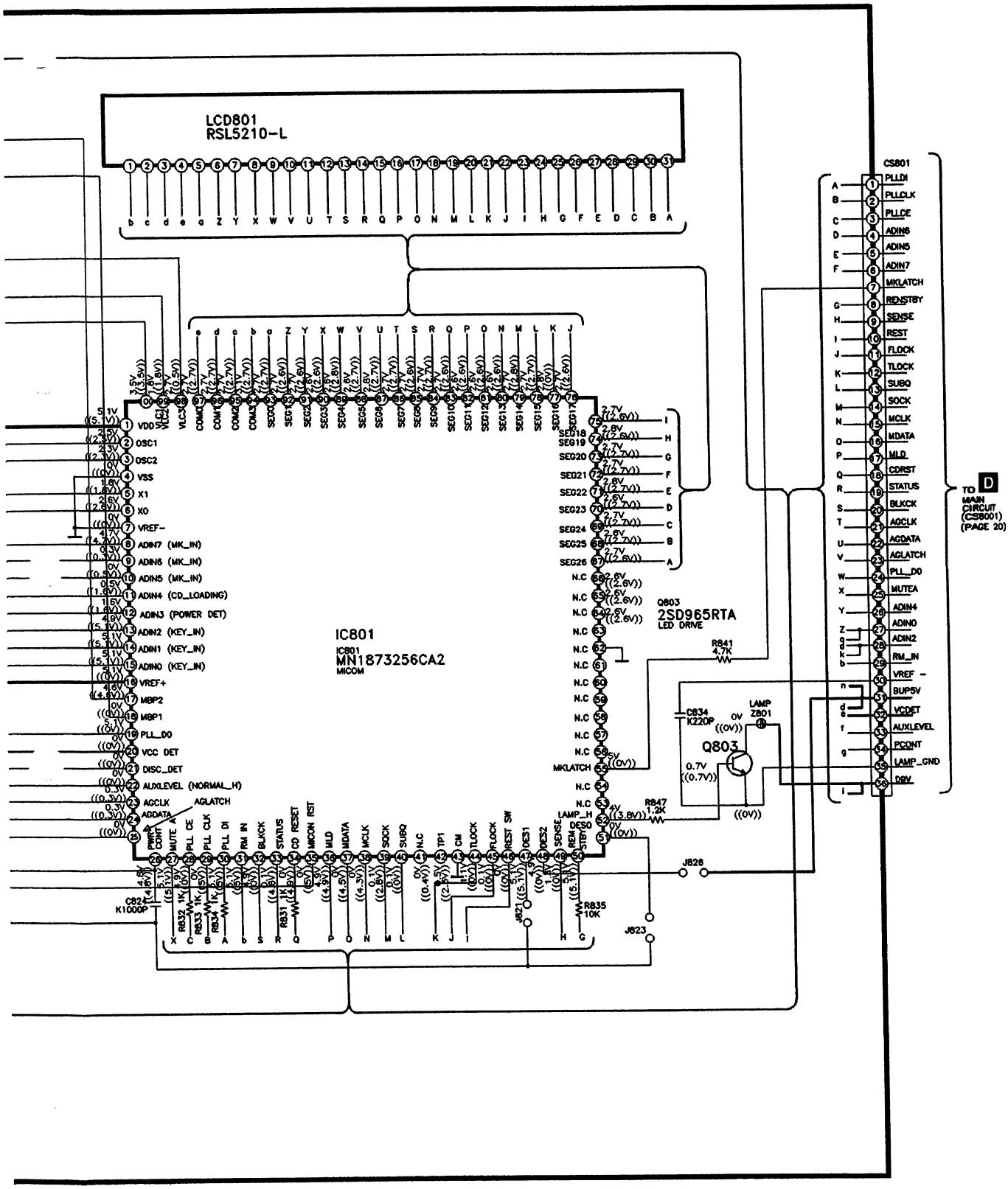


—— : +B line

C PANEL CIRCUIT
(P.C.BOARD ON PAGE 28)

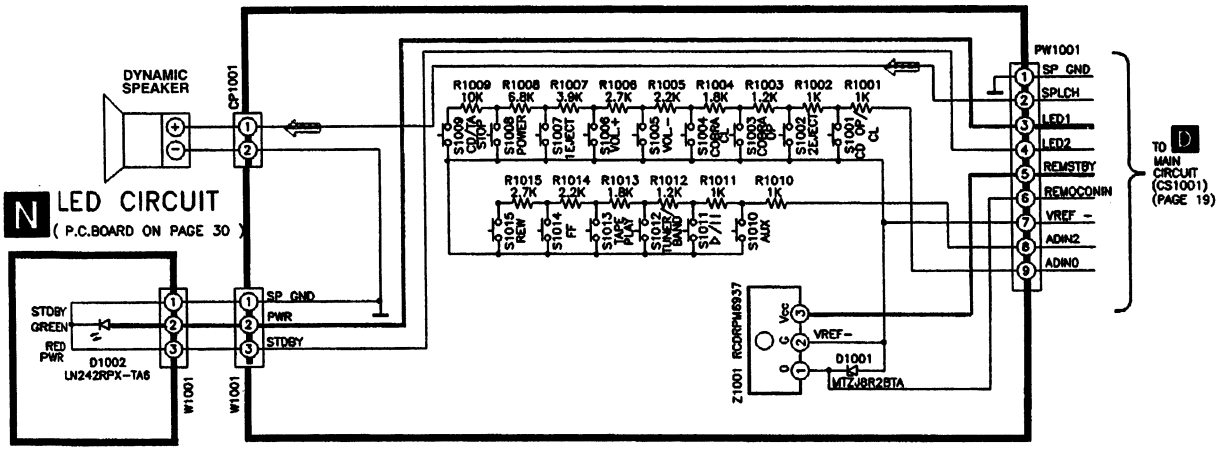


——— : +B line


LCD801
RSL5210-L
IC801
IC801
MN1873256CA2
MICOM
Q803
2SD965RTA
LED DRIVE
CS801
TO D MAIN CIRCUIT (CS8001) (PAGE 20)
VDD
OSC1
OSC2
VSS
X1
X0
VREF-
ADIN7 (MK_IN)
ADIN6 (MK_IN)
ADIN5 (MK_IN)
ADIN4 (CD_LOADING)
ADIN3 (POWER DET)
ADIN2 (KEY_IN)
ADIN1 (KEY_IN)
ADINO (KEY_IN)
VREF+
MBP2
MBP1
PLL_DO
VCC DET
DISC_DET
AUXLEVEL (NORMAL_H)
AGCLK
AGDATA
AGLATCH
MUTE
PLL CE
PLL CLK
PLL DI
RM IN
BLKCK
STATUS
CD RESET
MICOM RST
MLD
MDATA
MCLK
SOCK
SUBQ
N.C
TP1
CM
TLOCK
FLOCK
REST SW
DES1
DES2
SENSE
REM
STEP
LAMP_H
MKLATCH
PLLDI
PLLCLK
PLLCE
ADIN6
ADIN5
ADIN7
MKLATCH
RENSTBY
SENSE
REST
FLOCK
TLOCK
SUBQ
SOCK
MCLK
MDATA
MLD
CDRST
STATUS
BLKCK
AGCLK
AGDATA
AGLATCH
PLL_DO
MUTEA
ADIN4
ADINO
ADIN2
RM_IN
VREF -
BUP5V
VCDET
AUXLEVEL
PCONT
LAMP_GND
D5V
LAMP Z801
R841 4.7K
R847 1.2K
R835 10K
C834 K220P
C822 K1000P
J826
J823
J821

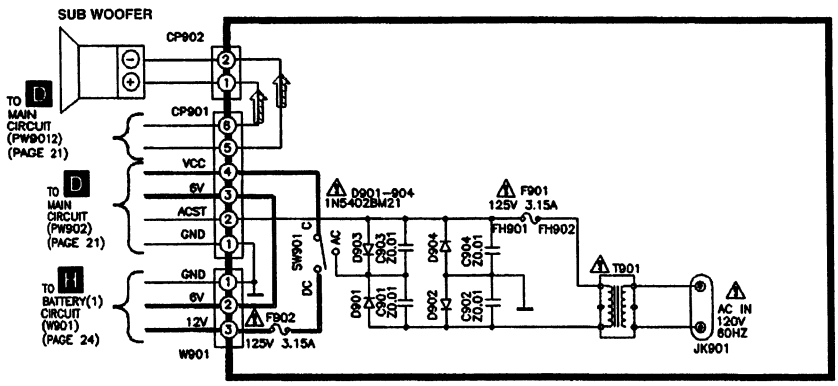
——— : +B line - - - : -B line ⟹ : Main signal line

E CONTROL CIRCUIT
(P.C.BOARD ON PAGE 27)

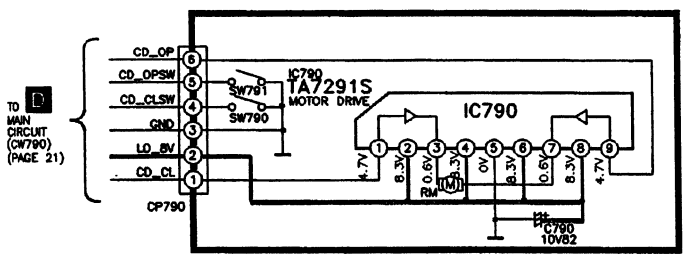


N LED CIRCUIT
(P.C.BOARD ON PAGE 30)

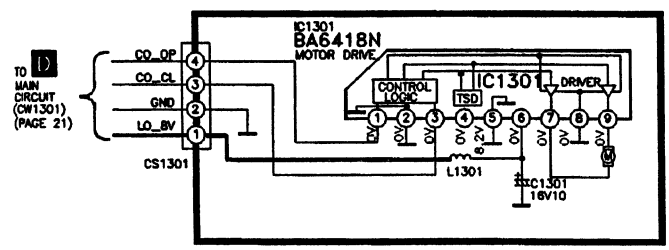
F POWER SUPPLY CIRCUIT
(P.C.BOARD ON PAGE 29)



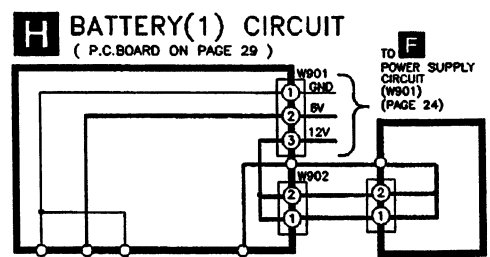
K LOADING MOTOR CIRCUIT
(P.C.BOARD ON PAGE 30)



L MOTOR (TOP PANEL) CIRCUIT
(P.C.BOARD ON PAGE 30)

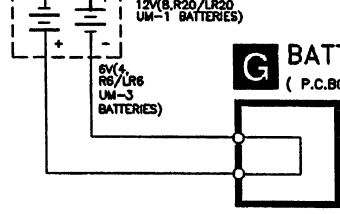


H BATTERY(1) CIRCUIT
(P.C.BOARD ON PAGE 29)



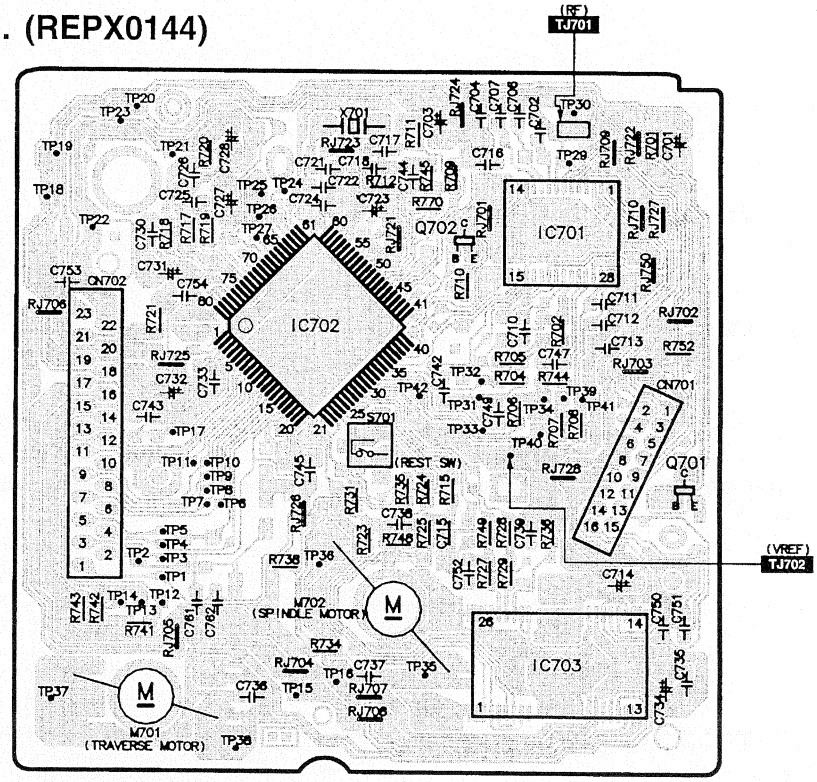
M BATTERY(3) CIRCUIT
(P.C.BOARD ON PAGE 29)

G BATTERY(2) CIRCUIT
(P.C.BOARD ON PAGE 29)

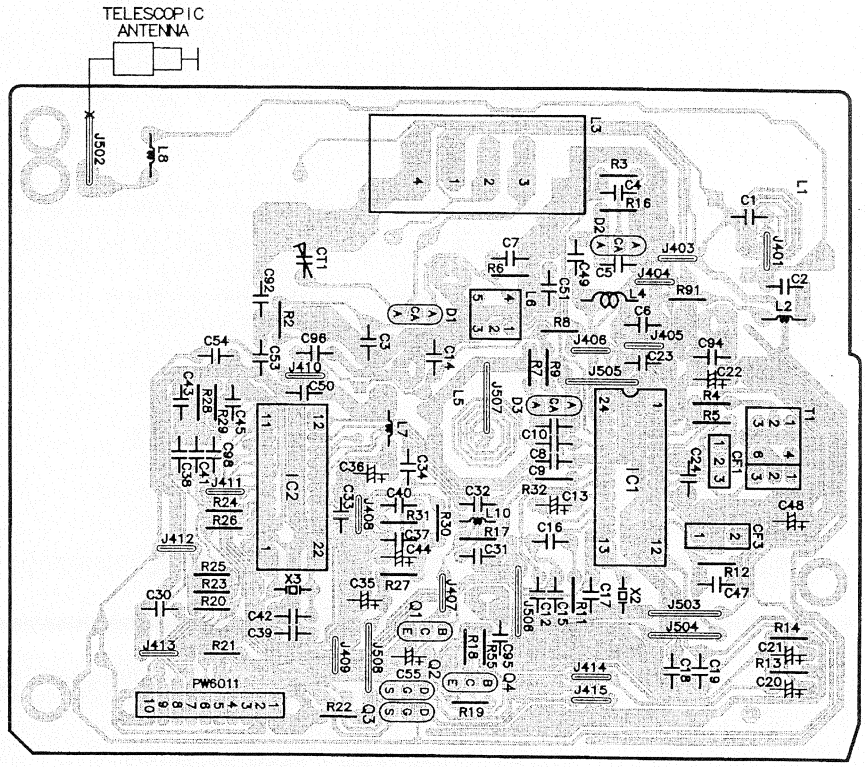


■ Printed Circuit Board

A SERVO P.C.B. (REPX0144)



B TUNER P.C.B. (REP2730E)



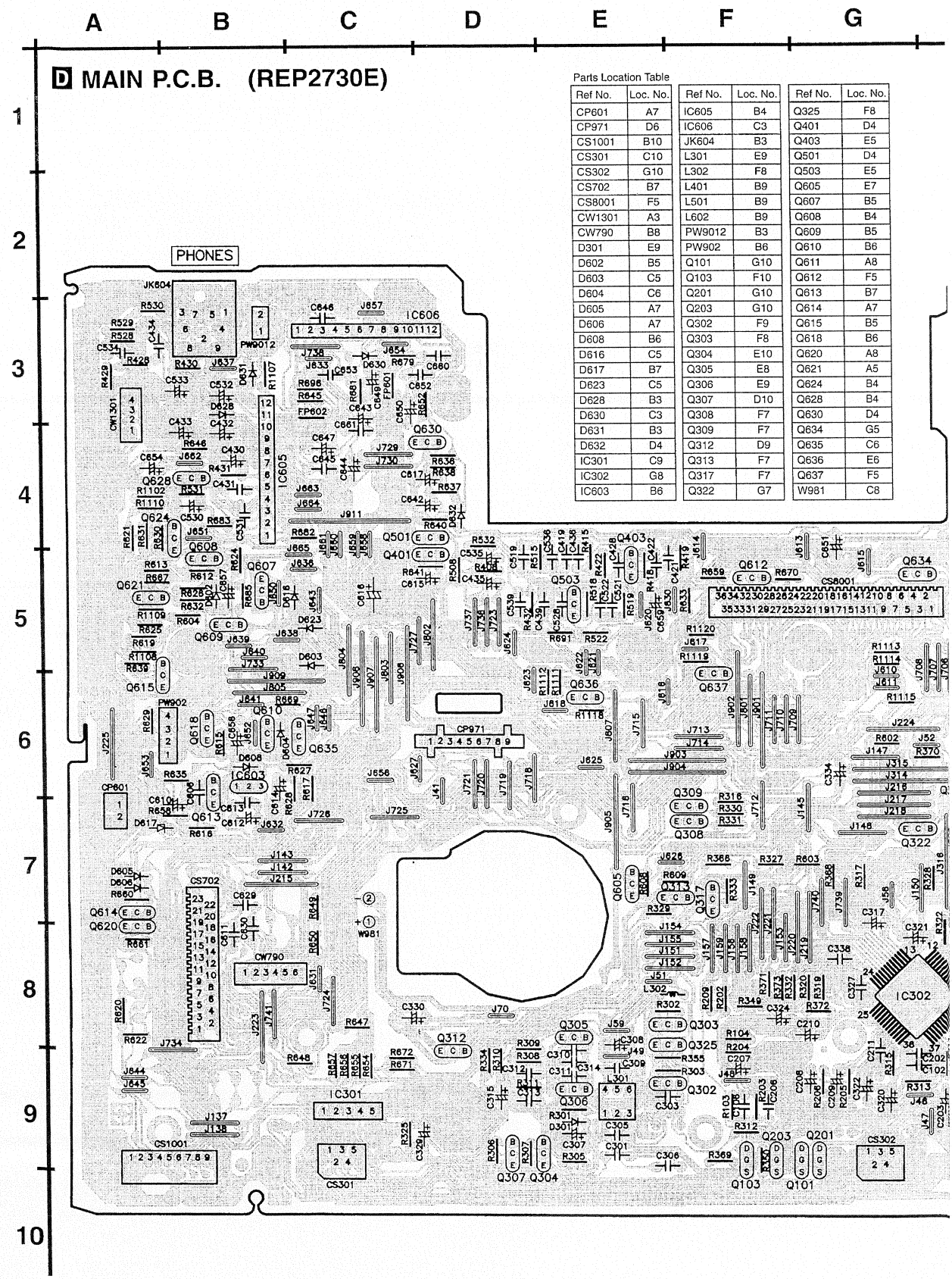
D MAIN P.C.B. (REP2730E)

Parts Location Table

Ref No.	Loc. No.
CP601	A7
CP971	D6
CS1001	B10
CS301	C10
CS302	G10
CS702	B7
CS8001	F5
CW1301	A3
CW790	B8
D301	E9
D602	B5
D603	C5
D604	C6
D605	A7
D606	A7
D608	B6
D616	C5
D617	B7
D623	C5
D628	B3
D630	C3
D631	B3
D632	D4
IC301	C9
IC302	G8
IC603	B6

Ref No.	Loc. No.
IC605	B4
IC606	C3
JK604	B3
L301	E9
L302	F8
L401	B9
L501	B9
L602	B9
PW9012	B3
PW902	B6
Q101	G10
Q103	F10
Q201	G10
Q203	G10
Q302	F9
Q303	F8
Q304	E10
Q305	E8
Q306	E9
Q307	D10
Q308	F7
Q309	F7
Q312	D9
Q313	F7
Q317	F7
Q322	G7

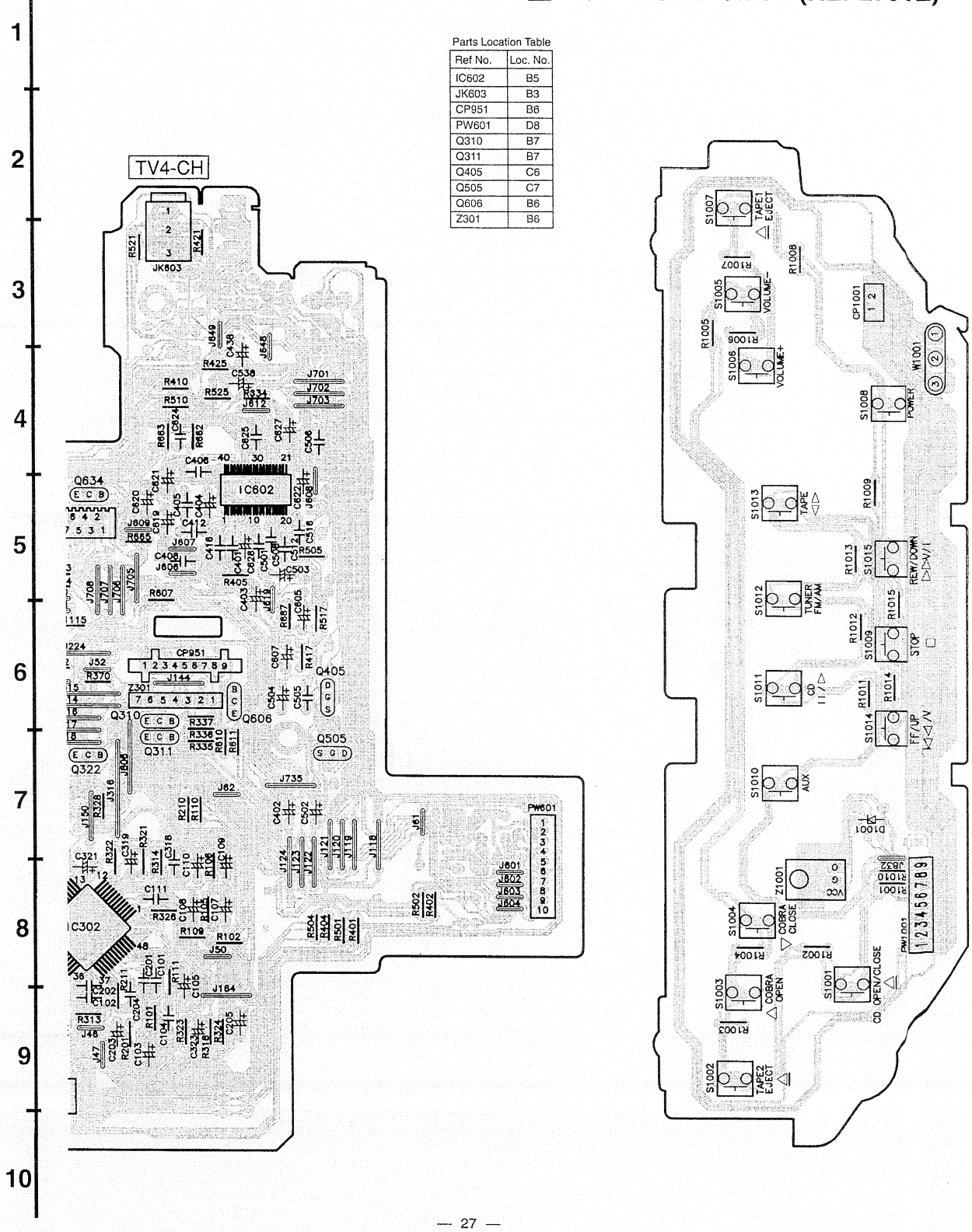
Ref No.	Loc. No.
Q325	F8
Q401	D4
Q403	E5
Q501	D4
Q503	E5
Q605	E7
Q607	B5
Q608	B4
Q609	B5
Q610	B6
Q611	A8
Q612	F5
Q613	B7
Q614	A7
Q615	B5
Q618	B6
Q620	A8
Q621	A5
Q624	B4
Q628	B4
Q630	D4
Q634	G5
Q635	C6
Q636	E6
Q637	F5
W981	C8



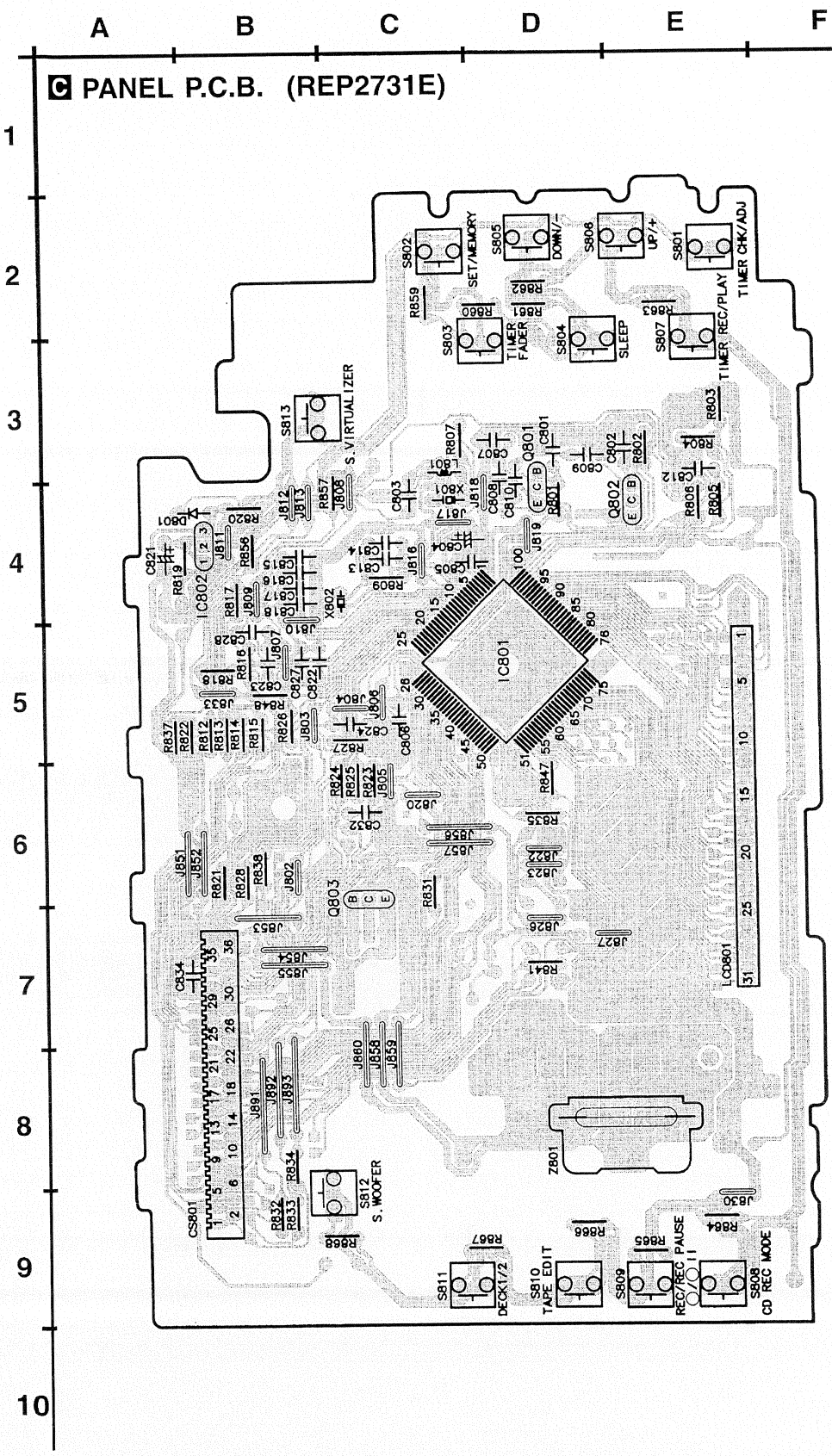
E CONTROL P.C.B. (REP2731E)

Parts Location Table

Ref No.	Loc. No.
IC602	B5
JK603	B3
CP951	B6
PW601	D8
Q310	B7
Q311	B7
Q405	C6
Q505	C7
Q606	B6
Z301	B6



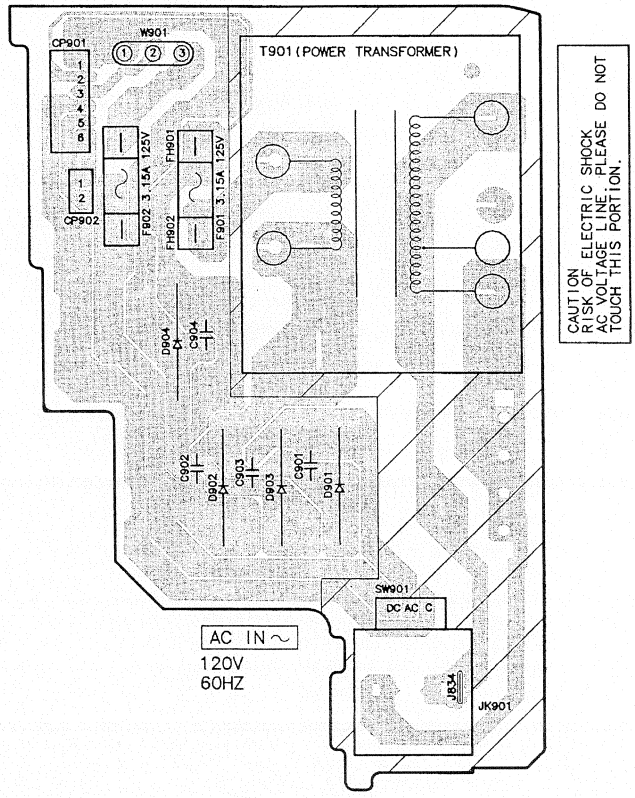
C PANEL P.C.B. (REP2731E)



Parts Location Table

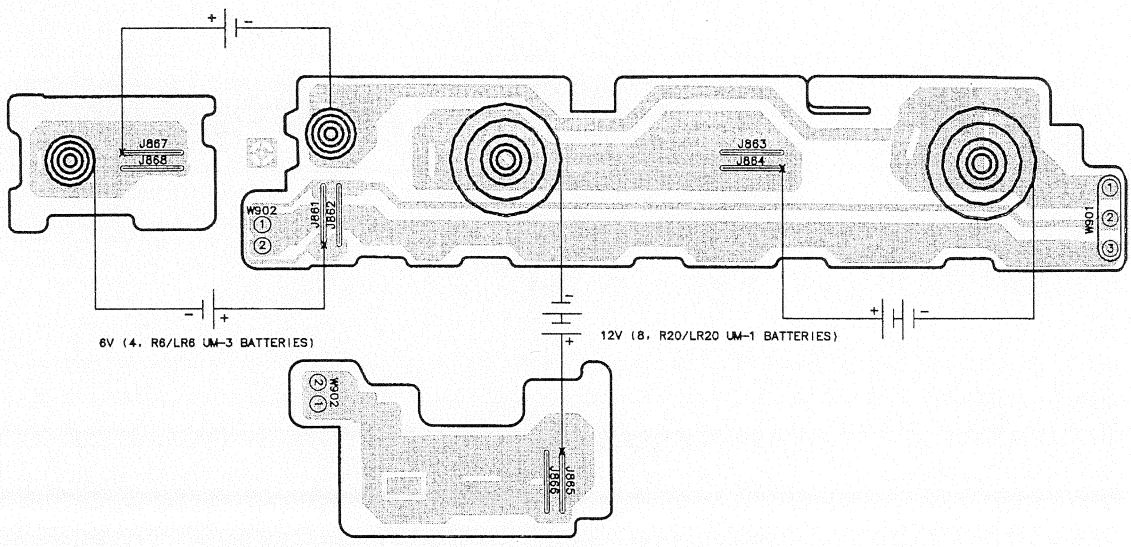
Ref No.	Loc. No.
CS801	B7
IC801	D5
IC802	B4
LCD801	F5
L801	D3
Q801	E3
Q802	E4
Q803	C6
S801	F2
S802	D2
S803	D3
S804	E3
S805	D2
S806	E2
S807	F3
S808	F9
S809	E9
S810	E9
S811	D9
S812	C9
S813	C3
X801	D4
X802	C4
D801	B4
Z801	E8

F POWER SUPPLY P.C.B. (REP2731E)



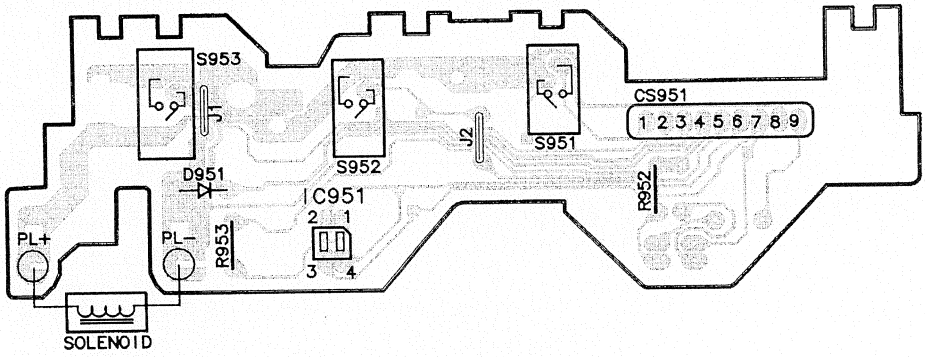
G BATTERY (2) P.C.B. (REP2731E)

H BATTERY (1) P.C.B. (REP2731E)

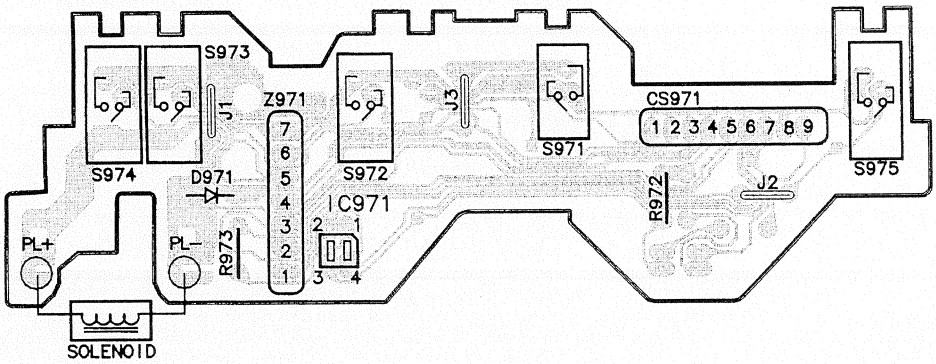


M BATTERY (3) P.C.B. (REP2731E)

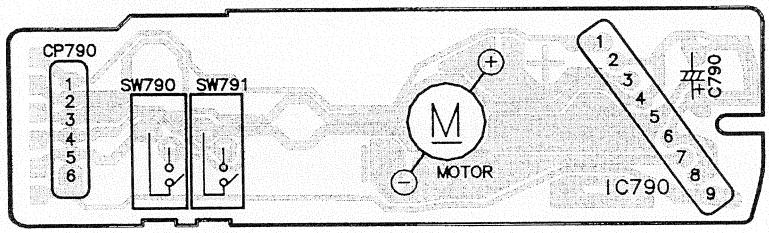
I MECHANISM DECK 1 P.C.B. (REPX0108A)



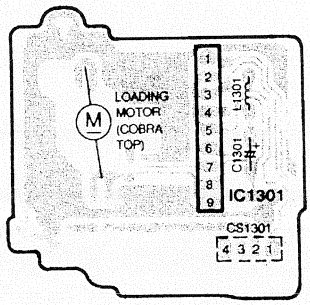
J MECHANISM DECK 2 P.C.B. (REPX0108)



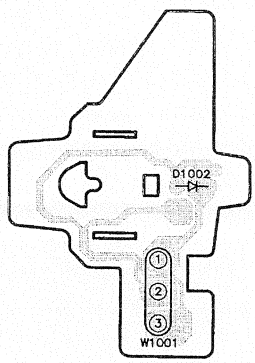
K LOADING MOTOR P.C.B. (REP1960A)



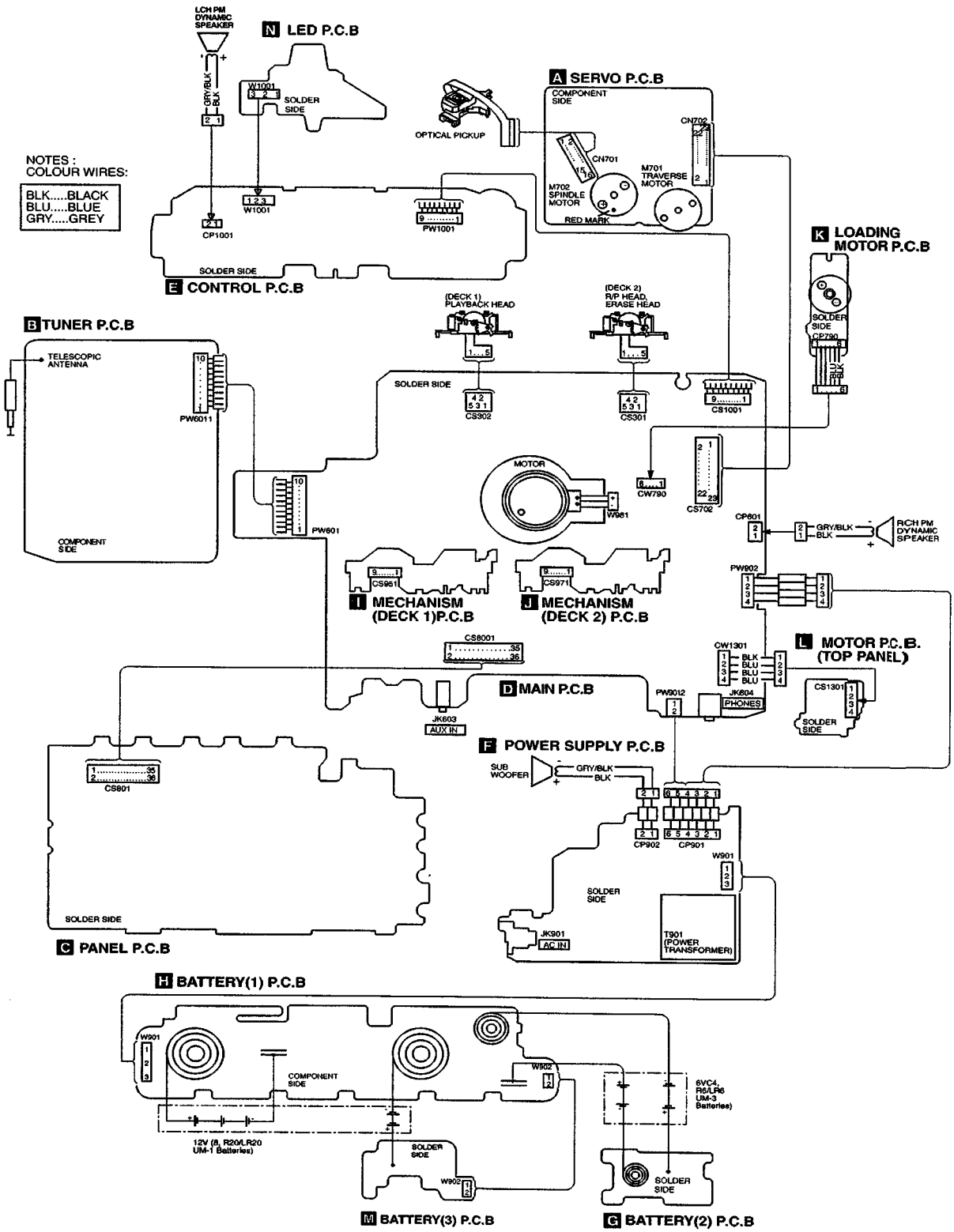
L MOTOR P.C.B. (REP1977A)



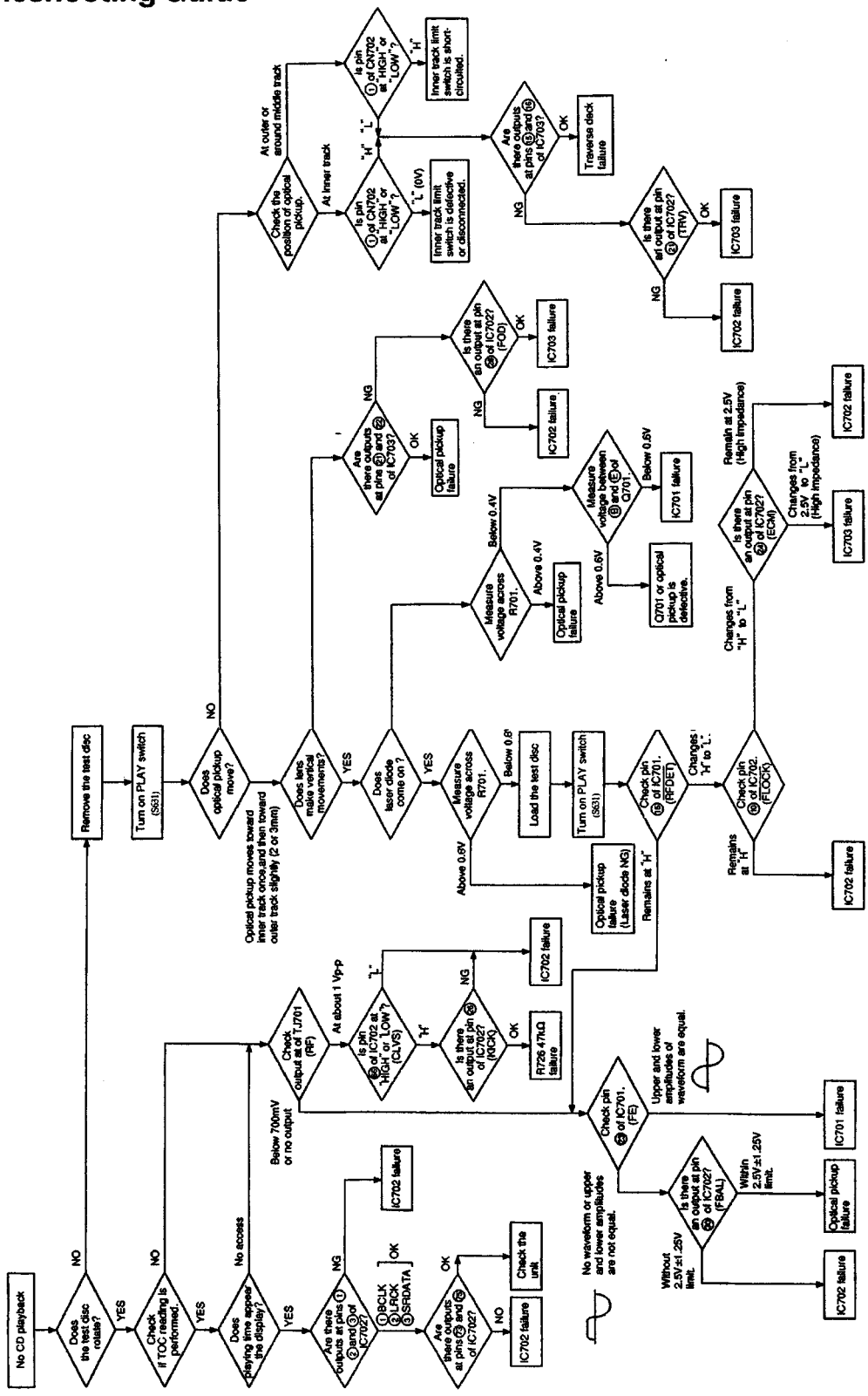
N LED P.C.B. (REP2731E)



■ Wiring Connection Diagram



■ Troubleshooting Guide


No CD playback
Does the test disc rotate?
NO
YES
Remove the test disc
Turn on PLAY switch (S631)
Does optical pickup move?
NO
YES
Optical pickup moves toward inner track once,and then toward outer track slightly (2 or 3mm)
Does lens make vertical movements?
YES
Does laser diode come on?
YES
Measure voltage across R701.
Below 0.4V
Above 0.4V
Optical pickup failure
Measure voltage between ⑪ and ⑤ of Q701.
Below 0.6V
IC701 failure
Above 0.6V
Q701 or optical pickup is defective.
Load the test disc
Turn on PLAY switch (S631)
Above 0.6V
Optical pickup failure (Laser diode NG)
Check pin ⑩ of IC701. (RFDET)
Changes from "H" to "L".
Remains at "H"
Check pin ⑩ of IC702. (FLOCK)
Changes from "H" to "L"
Is there an output at pin ㉔ of IC702? (ECM)
Changes from 2.5V to "L" (High impedance)
IC703 failure
Remain at 2.5V (High impedance)
IC702 failure
Remains at "H"
IC702 failure
At outer or around middle track
At inner track
Check the position of optical pickup.
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
Inner track limit switch is short-circuited.
"L" (0V)
Inner track limit switch is defective or disconnected.
Are there outputs at pins ⑫ and ⑯ of IC703?
OK
Traverse deck failure
NG
Is there an output at pin ② of IC702? (TRV)
OK
IC703 failure
NG
IC702 failure
Are there outputs at pins ② and ⑧ of IC703?
NG
OK
Optical pickup failure
Is there an output at pin ㉘ of IC702? (FOD)
OK
IC703 failure
NG
IC702 failure
Check output at of TJ701 (RF)
At about 1 Vp-p
Below 700mV or no output
Is pin ㉞ of IC702 at "HIGH" or "LOW"? (CLVS)
"L"
"H"
Is there an output at pin ㉖ of IC702? (KICK)
NG
OK
IC702 failure
R726 47kΩ failure
Check pin ⑨ of IC701. (FE)
Upper and lower amplitudes of waveform are equal.
No waveform or upper and lower amplitudes are not equal.
Is there an output at pin ⑤ of IC702? (FBAL)
Within 2.5V±1.25V limit.
Optical pickup failure
Without 2.5V±1.25V limit.
IC702 failure
IC701 failure
Are there outputs at pins ① (SCLK) ② (LRCK) and ③ (SRDATA) of IC702?
NG
OK
IC702 failure
Are there outputs at pins ㉓ and ㉕ of IC702?
OK
NG
Check the unit.
IC702 failure
Does playing time appear the display?
YES
No access
NO
Check if TOC reading is performed.
YES
NO

■ Measurements and Adjustments

■ TUNER SECTION

● ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set power source voltage to 9 V DC. 2. Set power switch to ON. 3. Set function switch to TUNER / AM.	4. Set volume level to 40. 5. Output of signal generator should be no higher than necessary to obtain an output reading.

Note : No FM STEREO alignment is required for this Tuner used.
The parts other than the ones listed below are aligned at the factory before they are supplied.
Therefore, alignment of those parts is unnecessary when used for replacement.

● AM-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in **Fig.1**)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	600 kHz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	[*1] L6 (AM ANT Coil)	Adjust for maximum output.
"	1500 kHz	"	"	CT1 (AM ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

● FM-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in **Fig.1**)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	87.9 MHz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	L4 (AM IFT)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

■ CASSETTE DECK SECTION

● ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set power source voltage to 9 V DC. 2. Set power switch to ON.	3. Set function switch to TAPE. 5. Set volume level to 40.

● HEAD AZIMUTH ALIGNMENT

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
QZZCFM (8 kHz, -20 dB)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth Screw (Shown in Fig. 3)	1. Insert a test tape (QZZCFM) and start playback in the forward direction. 2. Adjust the azimuth screw for maximum waveform on the oscilloscope and the similar output on L and R channels. 3. When adjusting the azimuth in the reverse direction, repeat the adjustment several times because of a little slip on the forward direction side.

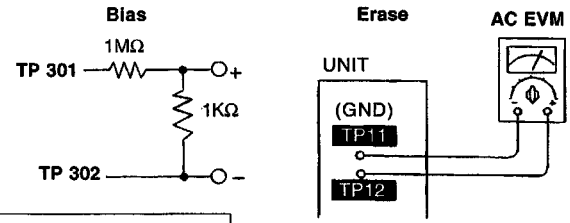
CAUTION :
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- After the adjustiment, apply screwlock to the azimuth adjusting screw. (Screw-locking bond: RZZ0L01)

● TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT (3 kHz, -10 dB)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	Motor VR. (shown in Fig. 4)	3000 ± 60 Hz	1. Insert a test tape (QZZCWAT) in DECK 2 and start playback in the forward direction. 2. Adjust motor VR for output value of 3000 ± 20 Hz shown on frequency counter. 3. Check tht the DECK 2 REV and DECK 1 FWD/ REV tape speed are within DECK 2 FWD tape speed ± 40 Hz.

● BIAS AND ERASE VOLTAGE CHECK

1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (use "● REC / STOP" key).
3. Measure and make sure that the output is within the standard value.
4. Insert the CrO_2 tape (QZZCRX).
5. Repeat steps 2 and 3.

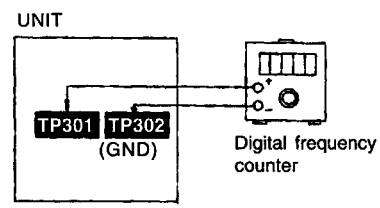


Bias voltage for Deck 2 (Standard value)	**: 19 ± 4mV (Normal)** **27 ± 5mV (CrO_2)**
Erase voltage for Deck 2 (Standard value)	**: more than 100mV (Normal)** **: more than 150mV (CrO_2)**

● BIAS FREQUENCY ADJUSTMENT (DECK 2)

1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (use "● REC / STOP" key).
3. Adjust L201 so that the output frequency is within the standard value.

Standard Value : 98 ± 8 kHz

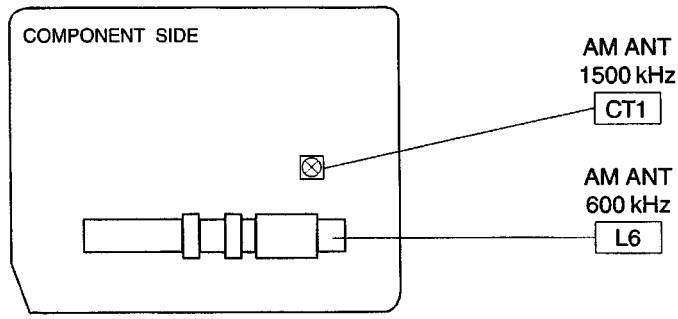


■ CD SECTION

Alignment is unnecessary for CD section of this unit.

■ ALIGNMENT POINTS

Fig 1.



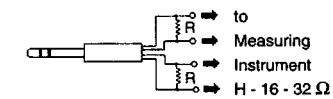


Fig. 2

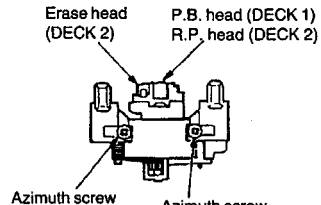


Fig. 3

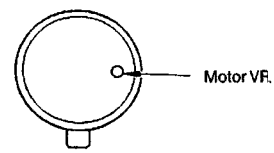


Fig. 4

■ Type Illustration of ICs, Transistors & Diodes

TA2008AN (24 PIN) LC72131D (22 PIN) BH3857AFV (40 PIN)	BA7755A (5 PIN)	CXA1998AQ (48 PIN) MN1873256CA2 (100 PIN)	S81350HG-Z (3 PIN) S-80830ANY-Z (3 PIN)	AN7135 (12PIN)	
TA7291S (9 PIN)	ON2180RLC	BA6418N (9 PIN)	2SD965RTA 2SA952LTA 2SC2001KTA	2SC1740SRTA RVTDTC144TST RVTDTA143XST RVTDTC144EST RVTDTC114YST 2SC1740SLNST 2SC2389SSTA RVTDTC114EST	
2SB1030RTA	2SB1566E	2SJ498CTA 2SJ498DTA	2SB1240RTV2	2SA933SSTA	2SD1450RTA
1SR139400TA	SVC346T-AA KV1360NTM	RVD1SS133TA MA165TA	1N5402BM21	MTZJ9R1ATA MTZJ12BTA MTZJ8R2BTA RB441Q40T77 LN142WP38 LN242RPX-TA6	

■ Terminal Function of IC's

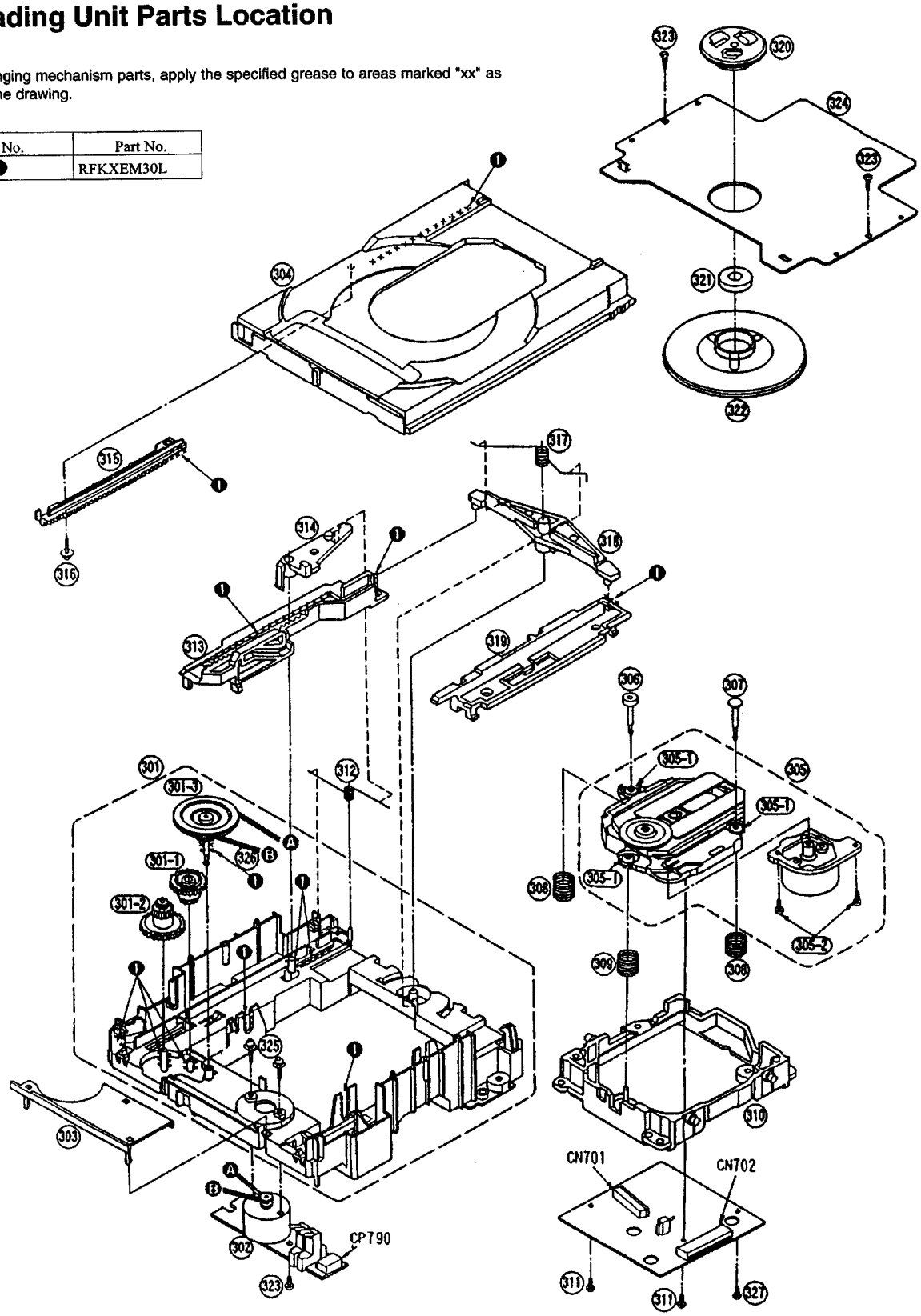
• IC801 (MN1873256CA2) MICROPROCESSOR

Pin No.	Mark	I/O	Function
1	VDD	I	Power supply +5V
2	OSC2	O	Main clock 6MHz Output
3	OSC1	I	Main clock 6MHz Input
4	VSS	--	GND
5	XI	I	Sub Clock 32.768kHz
6	XO	O	Sub Clock 32.768kHz
7	VREF-	--	Ref Voltage input to AD converter
8	ADIN7	I	DECK AD SW1 (RECIN_F, MODE2, RECIH_R, HALF2)
9	ADIN6	I	DECK AD SW2 (HALF1, MODE1, PHOTO1, PHOTO2)
10	ADIN5	I	DECK AD SW3 (TPS)
11	ADIN4 (LOADING)	I	CD TRAY OPEN / CLOSE SW (OPEN_SW,CLOSE_SW)
12	ADIN3 (PWRDET)	I	Power supply Voltage detect
13	ADIN2	I	Operation Keys Input 2
14	ADIN1	I	Operation Keys Input 1
15	ADIN0	I	Operation Keys Input 0
16	VREF+	--	Ref Voltage input to AD converter
17	MBP2	O	Microcomputer Beat-Proof Control 1
18	MBP1	O	Microcomputer Beat-Proof Control 1
19	PLL_DO	I	Tuner PLL IC DATA "DO" Input
20	VCCDET	I	VCC Detect Input
21	NC	--	No connection
22	AUXLEVEL	I	AUX Input Level Control
23	ACLK	O	Clock Output for ASP & Deck IC
24	ADATA	O	Data Output for ASP & Deck IC
25	ALATCH	O	Latch Output for ASP
26	PWRCONT	O	Power Control Output
27	MUTEA	O	Audio Mute Control Output
28	PLL_CE	O	Tuner PLL IC Chip Enable "CE" Output
29	PLL_CLK	O	Tuner PLL IC Clock "CL" Output
30	PLL_DI	O	Tuner PLL IC Data "DI" Output
31	RMT_IN	I	Remote Control Signal Input
32	BLKCK	I	CD Subcode Block Clock Input
33	STATUS	I	CD Status Input
34	CD RESET	O	CD Reset Control Output
35	RESET	I	Reset Input
36	MLD	O	CD Signal Processor LSI Load Output
37	MDATA	O	CD Signal Processor LSI Data Output
38	MCLK	O	CD Signal Processor LSI Clock Output
39	SQCK	O	CD Subcode Qdata Clock Output
40	SUBQ	O	CD Subcode Qdata Clock Output
41	SBO0	--	No connection
42	SYNC	--	No connection
43	CM	I	Chip Mode
44,45	*NC	--	No connection
46	REST SW	I	CD TRV Limit Switch Input
47,48	REG2	I	Region Select Input 2
49	*NC	--	No connection
50	REMSTBY	I	Remote Standby
51	REG0	O	Region Select Input 3
52	LAMP_H	O	LCD
53,54	NC	--	No connection
55	MKLATCH	O	Latch Output for ASP
56~65	NC	--	No connection
66~93	SEG27~SEG0	O	LCD Segment Output
94~97	COM3~COM0	O	LCD Common Output
98~100	VLC3~VLC1	I	LCD bias reference voltage input

■ Loading Unit Parts Location

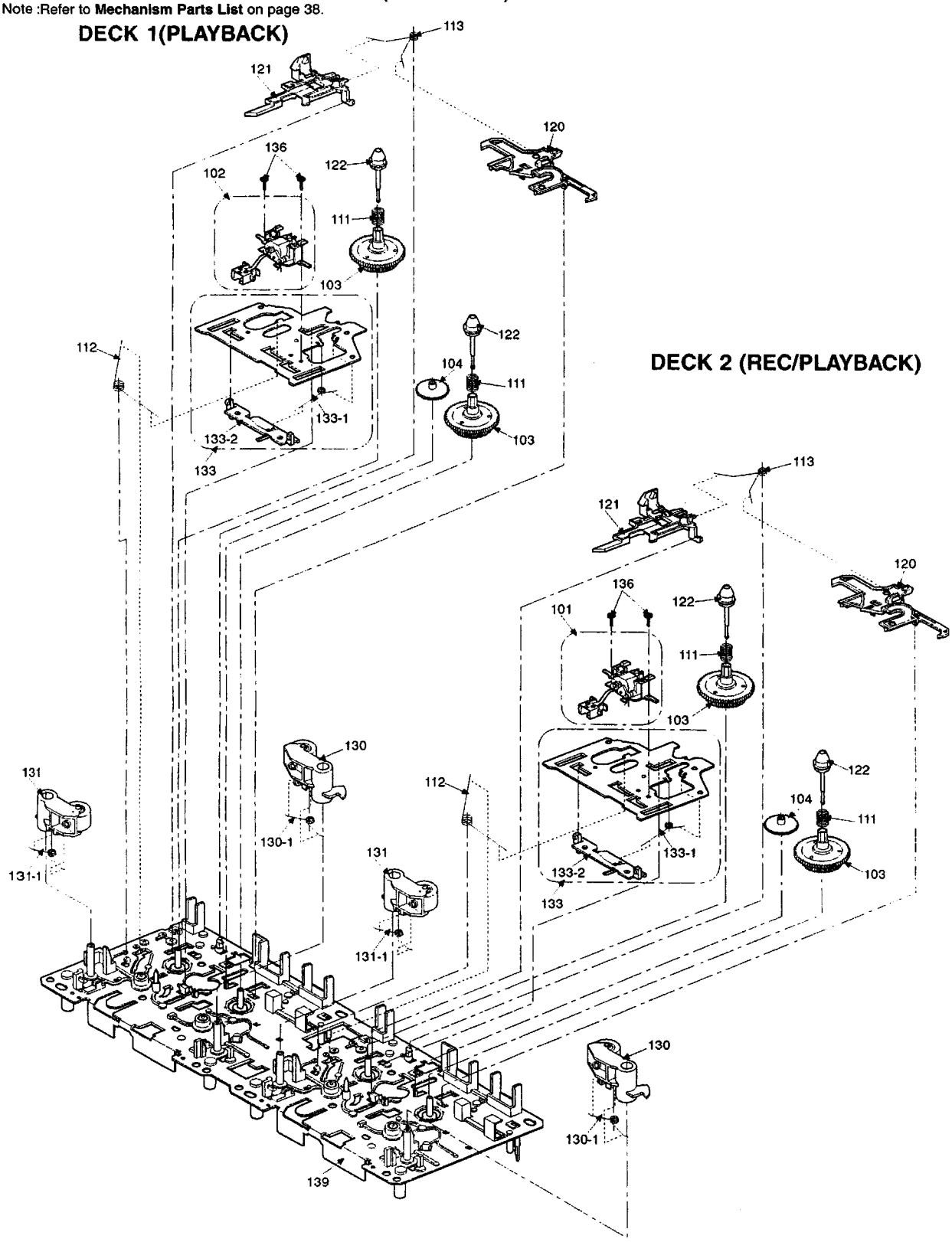
Note :
When changing mechanism parts, apply the specified grease to areas marked "xx" as shown in the drawing.

Ref. No.	Part No.
❶	RFKXEM30L



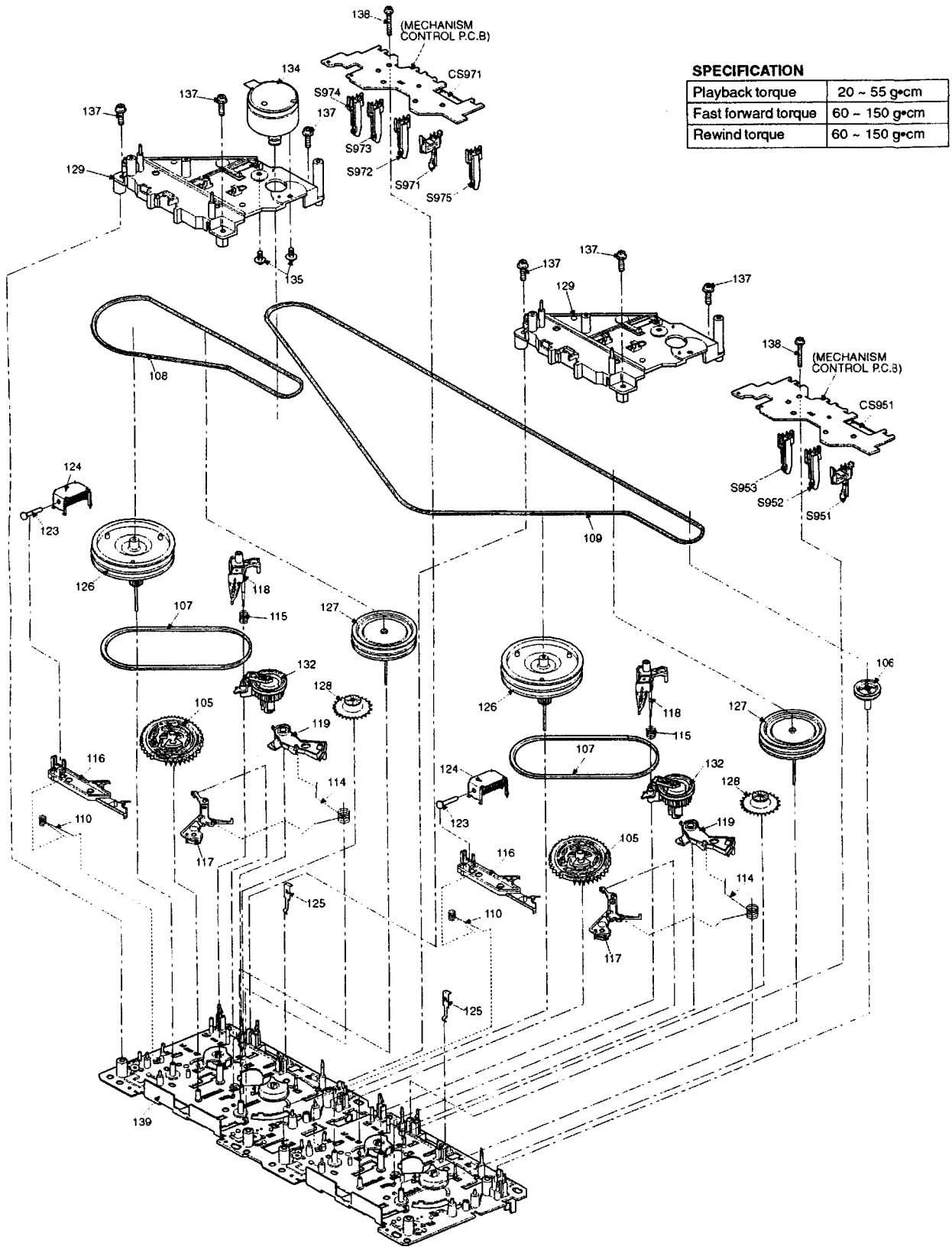
■ Mechanism Parts Location (RAA3406)

Note :Refer to **Mechanism Parts List** on page 38.

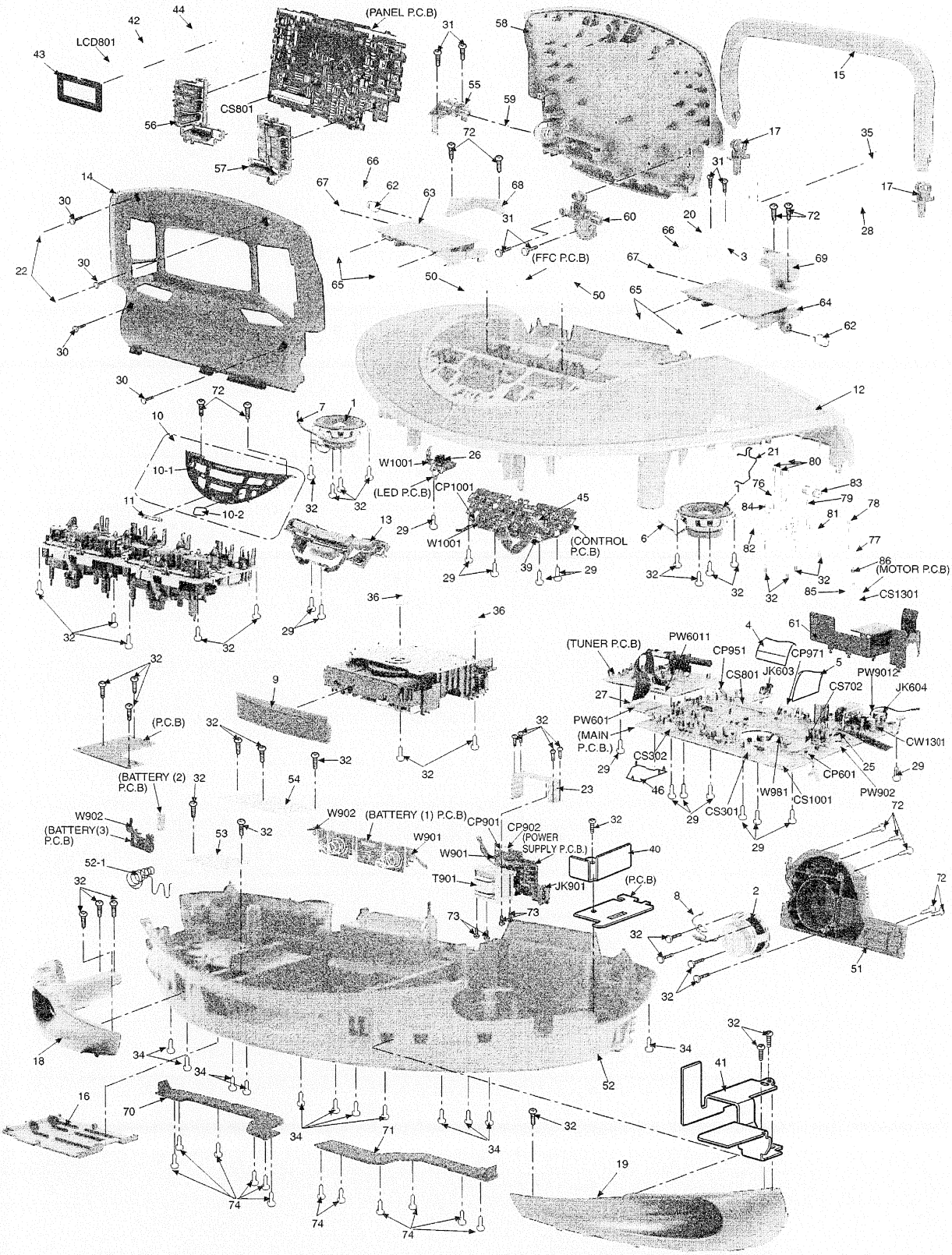


SPECIFICATION

Playback torque	20 ~ 55 g•cm
Fast forward torque	60 ~ 150 g•cm
Rewind torque	60 ~ 150 g•cm



■ Cabinet Parts Location



■ Mechanism Parts List

Note : **[M]** mark in Remarks column indicates parts that are supplied by **MESA**.

Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0037	R/P HEAD BLOCK UNIT	[M]
102	RED0038	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
106	RDR0029	RELAY PULLEY	[M]
107	RDV0033-1	WINDING BELT	[M]
108	RDV0034-1	CAPSTAN BELT 'A'	[M]
109	RDV0057	MAIN BELT B	[M]
110	RMB0312	TRIG LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SP	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RXQ0470	PLUNGER ASSY	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL 'F' ASS'Y	[M]
127	RXF0050	FLYWHEEL 'R' ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-J	SUB CHASSIS	[M]
130	RXL0124	PINCH ROLLER 'F' ASS	[M]
130-1	RMB0401	PINCH ARM SPRING 'F'	[M]
131	RXL0125	PINCH ROLLER 'R' ASS	[M]
131-1	RMB0402	PINCH ARM SPRING 'R'	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412	HEAD PANEL ASS'Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0070	CAP MOTOR ASS'Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLK U SCREW	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJXED70-K	CHASSIS ASS'Y	[M]

■ Loading Mechanism Parts List

Note : **[M]** mark in Remarks column indicates parts that are supplied by **MESA**.

Ref No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RFKJXDT07-K	TRV CHASSIS ASS'Y	[M]
301-1	RDG0142	INTERMEDIATE GEAR	[M]
301-2	RDG0193	DRIVE GEAR (1)	[M]
301-3	RDP0065	INTERMEDIATE PULLEY	[M]
302	REM0019	LOADING M/R ASS'Y	[M]
303	RMK0255	BELT COVER	[M]
304	RGQ0144-K	DISC TRAY	[M]
305	RAE0152Z-M	TRAVERSE UNIT	[M]
305-1	SHGD113-1	FLOATING RUBBER (A)	[M]
305-2	SNSD38	SCREW	[M]
306	RMS0350	FIXED PIN B	[M]
307	RMS0123-1	FIXED PIN A	[M]
308	RME0109	FLOATING SPRING A	[M]
309	RME0142	FLOATING SPRING B	[M]
310	RMR0698-K	TRAVERSE CHASSIS	[M]
311	XTV2+6G	SCREW	[M]
312	RME0063	LOCK LEVER SPRING	[M]
313	RMM0079- 1	SLIDE PLATE (1)	[M]
314	RML0178-1	LOCK LEVER	[M]
315	RFKNLPG440-K	DRIVE GEAR (2) ASS'Y	[M]
316	RHD20009-1	SCREW	[M]
317	RME0087	ASSISTANCE SPRING	[M]
318	RML0349	CONVERSION LEVER	[M]
319	RMM0059-1	SLIDE PLATE (2)	[M]
320	RMR0334	FIXED PLATE	[M]
321	RHM245ZA	MAGNET	[M]
322	RXQ0380	MAG HOLDER ASS'Y	[M]
323	XTN26+6G	SCREW	[M]
324	RMA0793	CLAMP PLATE	[M]
325	XYN2+F6FZ	SCREW (MOTOR)	[M]
326	RMG0158	BELT	[M]
327	XTN26+6G	SCREW	[M]

■ Replacement Parts List

Notes:
- Important safety notice :
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
  When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks column specify the areas and/or colour. (Refer to the cover page for area and colour.)
  Parts without these indications can be used for all areas.
- [M] indicates parts that are supplied by **MESA**.
- Warning : This product uses a laser diode. Refer to caution statements on page 3.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RAS8P10-B	SPEAKER	[M]
2	RAS8PL01-B	WOOFER SPEAKER	[M]
3	RDB0057-3J	COBRA HOLDER (R)	[M]
4	REE0886	COBRA FFC WIRE	[M]
5	REE0758	CD FFC (23P)	[M]
6	REX0936	SP (R) TO MAIN WIRE	[M]
7	REX0937	SP (L) TO MAIN WIRE	[M]
8	REX0938	WOOFER-MAIN WIRE	[M]
9	RGK1071-K	CD TRAY LID	[M]
10	RFKGED707GTS	FRONT PANEL ASS'Y	[M]
10-1	RGP0685A-K	FRONT PANEL	[M]
10-2	RKW0556-K	FILTER PANEL	[M]
11	RGB301WA-0	PANASONIC BADGE	[M]
12	RFKKED707GCS	UPPER CAB. ASS'Y	[M]
13	RGU1680A-S	FRONT BUTTON	[M]
14	RKF0567-H	COBRA FRONT COVER	[M]
15	RKH0043-H	HANDLE	[M]
16	RKK0118-K	BATTERY COVER	[M]
17	RKQ0224-K	HANDLE FIXTURE	[M]
18	RKT0050-K	PORT (L)	[M]
19	RKT0051-K	PORT (R)	[M]
20	RMC0252	FRICTION SPRING	[M]
21	RME0281	ROD ANT. TERMINAL	[M]
22	RMG0249-K1	LEG CUSHION	[M]
23	RMAX0037A	TRANS. BRACKET	[M]
25	RJS1A5504	CABLE HOLDER	[M]
26	RMN0504	LED HOLDER	[M]
27	RJS2A1310	10P CABLE HOLDER	[M]
28	XEARR210C-Y	ROD ANTENNA	[M]
29	XTBS26+10J	SCREW	[M]
30	XTN26+8GFZ	SCREW	[M]
31	XTV26+8G	SCREW	[M]
32	XTV3+12G	SP MOUNTING SCREW	[M]
34	XTV3+20G	CASING SCREW	[M]
35	XYN3+F12FY	ROD ANT SCREW	[M]
36	RMR1155-K	CD FIXTURE	[M]
39	RJS2A1309	9P WIRE HOLDER	[M]
40	RMA0214	ANGLE A	[M]
41	RMA0215	ANGLE B	[M]
42	RGL0291-Q	LIGHTING PANEL	[M]
43	RGP0488-4Q	LCD PANEL	[M]
44	RMN0332-1	LCD HOLDER	[M]
45	RMN0505	R/M SENSOR HOLDER	[M]
46	RSC0526	TUNER SHIELD	[M]
50	RME0230	OPEN SPRING	[M]
51	RKF0568-K	REAR COVER	[M]
52	RFKJED707PPS	BOTTOM CAB. ASS'Y	[M]
52-1	RJC91012	BATTERY TERMINAL	[M]
53	RMQ0828	BATT. COVER (L)	[M]
54	RMQ0829	BATT. COVER (R)	[M]
55	RDB0063-2	COBRA HOLDER (L)	[M]
56	RGU1678A-K	LEFT BUTTON	[M]
57	RGU1679A-K	RIGHT BUTTON	[M]
58	RKF0566-S	COBRA REAR COVER	[M]
59	RME0282	BALANCE SPRING	[M]
60	RMS0330A	POWER GEAR	[M]
61	RMY0225A	HEAT SINK	[M]
62	RDG0183-J	DAMPER GEAR	[M]
63	RFKLED707GAS	C. HOLDER ASS'Y(L)	[M]
64	RFKLED707GBS	C. HOLDER ASS'Y(R)	[M]
65	RUS757ZAA	CASS HALF SPRING	[M]
66	RMB0448-J	LOCK ROD SPRING	[M]
67	RMM0163	CASSETTE LOCK ROD	[M]
68	RKF0569-H	COBRA COVER (L)	[M]
69	RKF0570-H	COBRA COVER (R)	[M]
70	RKF0571-K	BOTTOM COVER (L)	[M]
71	RKF0572-K	BOTTOM COVER (R)	[M]
72	XTV3+10GFZ	TAPPING SCREW	[M]
73	XTV3+8F	SCREW	[M]
74	XTV3+12GFZ	TOP CAB SCREW	[M]
76	RMR0801-W	ANGLE	[M]
77	RSC0387	SHIELD CASE	[M]
78	XQN2+C3	SCREW	[M]
79	XQN2+C6	SCREW	[M]
80	XTV26+12F	SCREW	[M]
81	RMK0261	CHASSIS	[M]
82	RMC0253	CLIP	[M]
83	RFKNXDT07-K	GEAR ASS'Y	[M]
84	RDG0289	GEAR	[M]
85	RFKPXDT07-K	MOTOR ASS'Y	[M]
86	RDG0250A	GEAR	[M]
		INTEGRATED CIRCUITS	
IC1	TA2008AN	IC, TUNER	[M]
IC2	LC72131D	IC, PLL	[M]
IC301	BA7755A	IC, ANALOG SW	[M]
IC302	CXA1998AQ	IC, R/P	[M]
IC602	BH3857AFV	IC, SOUND PROCESS	[M]
IC603	S81350HG-Z	IC, 5V REGULATOR	[M] ⚠
IC605	AN7135	IC, POWER AMP	[M] ⚠
IC606	AN7135	IC, POWER AMP	[M] ⚠
IC701	AN8837SBE1	IC, HEAD AMP	[M]
IC702	MN662746RPK1	IC, LSI	[M]
IC703	AN8780NSBE2	IC	[M]
IC790	TA7291S	IC, LOADING M/R CD	[M]
IC801	MN1873256CA2	IC, MICOM	[M]
IC802	S-80830ANY-Z	IC, RESET	[M]
IC951	0N2180RLC	PHOTO INTERUPTOR	[M]
IC971	0N2180RLC	PHOTO INTERUPTOR	[M]
IC1301	BA6418N	IC, LOADING MOTOR	[M]
		TRANSISTORS	
Q1	RVTDTC114EST	TRANSISTOR	[M]
Q2	2SJ498CTA	TRANSISTOR	[M]
Q3	2SJ498CTA	TRANSISTOR	[M]
Q4	2SC1740SRTA	TRANSISTOR	[M]
Q101	2SJ498CTA	TRANSISTOR	[M]
Q103	2SJ498DTA	TRANSISTOR	[M]
Q201	2SJ498CTA	TRANSISTOR	[M]
Q203	2SJ498DTA	TRANSISTOR	[M]
Q302	2SC2389SSTA	TRANSISTOR	[M]
Q303	2SD1450RTA	TRANSISTOR	[M]
Q304	RVTDTC144TST	TRANSISTOR	[M]
Q305	2SC1740SRTA	TRANSISTOR	[M]
Q306	2SC1740SRTA	TRANSISTOR	[M]
Q307	2SC1740SRTA	TRANSISTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
Q308	2SC1740SRTA	TRANSISTOR	[M]
Q309	2SC1740SRTA	TRANSISTOR	[M]
Q310	2SC1740SRTA	TRANSISTOR	[M]
Q311	2SC1740SRTA	TRANSISTOR	[M]
Q312	2SD965RTA	TRANSISTOR	[M]
Q313	RVTDTA143XST	TRANSISTOR	[M]
Q317	RVTDTA143XST	TRANSISTOR	[M]
Q322	2SC1740SRTA	TRANSISTOR	[M]
Q325	2SC1740SRTA	TRANSISTOR	[M]
Q401	2SD1450RTA	TRANSISTOR	[M]
Q403	2SC1740SLNST	TRANSISTOR	[M]
Q405	2SJ498CTA	TRANSISTOR	[M]
Q501	2SD1450RTA	TRANSISTOR	[M]
Q503	2SC1740SLNST	TRANSISTOR	[M]
Q505	2SJ498CTA	TRANSISTOR	[M]
Q605	2SB1030RTA	TRANSISTOR	[M]
Q606	2SB1030RTA	TRANSISTOR	[M]
Q607	2SB1566E	TRANSISTOR	[M] ⚠
Q608	2SA933SSTA	TRANSISTOR	[M] ⚠
Q609	2SC1740SRTA	TRANSISTOR	[M] ⚠
Q610	2SA952LTA	TRANSISTOR	[M] ⚠
Q612	RVTDTA143XST	TRANSISTOR	[M]
Q613	2SC2001KTA	TRANSISTOR	[M] ⚠
Q614	2SB1030RTA	TRANSISTOR	[M]
Q615	RVTDTC114YST	TRANSISTOR	[M]
Q618	2SC1740SRTA	TRANSISTOR	[M]
Q620	RVTDTC144EST	TRANSISTOR	[M]
Q621	2SB1240RTV2	TRANSISTOR	[M]
Q624	2SC1740SRTA	TRANSISTOR	[M]
Q628	RVTDTA143XST	TRANSISTOR	[M]
Q630	2SD1450RTA	TRANSISTOR	[M]
Q634	2SC1740SRTA	TRANSISTOR	[M]
Q635	2SB1030RTA	TRANSISTOR	[M]
Q636	2SB1030RTA	TRANSISTOR	[M]
Q637	RVTDTC144EST	TRANSISTOR	[M]
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q702	DTC114YKA146	TRANSISTOR	[M]
Q801	2SC1740SRTA	TRANSISTOR	[M]
Q802	2SC1740SRTA	TRANSISTOR	[M]
Q803	2SD965RTA	TRANSISTOR	[M]
		DIODES	
D1	SVC346T-AA	DIODE	[M]
D2	KV1360NTM	DIODE	[M]
D3	KV1360NTM	DIODE	[M]
D301	RVD1SS133TA	DIODE	[M]
D602	MTZJ9R1ATA	DIODE	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
D603	1SR139400TA	DIODE	[M]
D604	RVD1SS133TA	DIODE	[M] ⚠
D605	RVD1SS133TA	DIODE	[M]
D606	RVD1SS133TA	DIODE	[M]
D608	RVD1SS133TA	DIODE	[M]
D616	RVD1SS133TA	DIODE	[M] ⚠
D617	MTZJ12BTA	DIODE	[M] ⚠
D623	1SR139400TA	DIODE	[M]
D628	RB441Q40T77	DIODE	[M]
D630	RB441Q40T77	DIODE	[M]
D631	RVD1SS133TA	DIODE	[M]
D632	RVD1SS133TA	DIODE	[M]
D801	RVD1SS133TA	DIODE	[M]
D901	1N5402BM21	DIODE	[M] ⚠
D902	1N5402BM21	DIODE	[M] ⚠
D903	1N5402BM21	DIODE	[M] ⚠
D904	1N5402BM21	DIODE	[M] ⚠
D951	MA165TA	DIODE	[M]
D971	MA165TA	DIODE	[M]
D1001	MTZJ8R2BTA	DIODE	[M]
D1002	LN242RPX-TA6	DIODE	[M]
		VARIABLE CAPACITORS	
CT1	ECRLA010A53R	TRIMMER CAPACITOR	[M]
		SWITCHES	
S701	RSH1A043-U	SW, REST	[M]
S801	EVQ21405R	SW, TIMER CHK/ADJ	[M]
S802	EVQ21405R	SW, SET/MEMORY	[M]
S803	EVQ21405R	SW, TIMER FADER	[M]
S804	EVQ21405R	SW, SLEEP	[M]
S805	EVQ21405R	SW, DOWN/-	[M]
S806	EVQ21405R	SW, UP/+	[M]
S807	EVQ21405R	SW, TIMER REC/PLAY	[M]
S808	EVQ21405R	SW, CD REC MODE	[M]
S809	EVQ21405R	SW, REC/REC PAUSE	[M]
S810	EVQ21405R	SW, TAPE EDIT	[M]
S811	EVQ21405R	SW, DECK 1/2	[M]
S812	EVQ21405R	SW, S. WOOFER	[M]
S813	EVQ21405R	SW, S. VIRTUALIZER	[M]
S951	RSH1A018-1U	SW, MODE DECK 1	[M]
S952	RSH1A019-2U	SW, LEAF	[M]
S953	RSH1A019-2U	SW, LEAF	[M]
S971	RSH1A018-3U	SW, MODE (DECK 2)	[M]
S972	RSH1A019-2U	SW, LEAF	[M]
S973	RSH1A019-2U	SW, LEAF	[M]

Ref No.	Part No.	Part Name & Description	Remarks
S974	RSH1A019-2U	SW, LEAF	[M]
S975	RSH1A019-2U	SW, LEAF	[M]
S1001	EVQ21405R	SW, CD OPEN/CLOSE	[M]
S1002	EVQ21405R	SW, DECK 2 EJECT	[M]
S1003	EVQ21405R	SW, COBRA OPEN	[M]
S1004	EVQ21405R	SW, COBRA CLOSE	[M]
S1005	EVQ21405R	SW, VOL. (-)	[M]
S1006	EVQ21405R	SW, VOL. (+)	[M]
S1007	EVQ21405R	SW, DECK 1 EJECT	[M]
S1008	EVQ21405R	SW, POWER	[M]
S1009	EVQ21405R	SW, CD/TAPE STOP	[M]
S1010	EVQ21405R	SW, AUX	[M]
S1011	EVQ21405R	SW, CD PLAY/PAUSE	[M]
S1012	EVQ21405R	SW, TUNER/BAND	[M]
S1013	EVQ21405R	SW, TAPE PLAY	[M]
S1014	EVQ21405R	SW. FF	[M]
S1015	EVQ21405R	SW, REW	[M]
SW790	RSH1A005	SW, OPEN	[M]
SW791	RSH1A005	SW, CLOSE	[M]
SW901	RJJ1SE01-1H	SW, AC INLET (JK901)	[M]
		CONNECTORS	
CN701	RJS2A6016	16P FFC CONNECTOR	[M]
CN702	RJS1A6723-1Q	23P FFC CONNECTOR	[M]
CP601	RJT029W002-1	SP CONNECTOR	[M]
CP790	RJP6G17ZA	6P CONNECTOR	[M]
CP901	RJT029W006-1	CONNECTOR	[M]
CP902	RJT029W002-1	SP CONNECTOR	[M]
CP951	RJT071H09A	CONNECTOR	[M]
CP971	RJT071H09A	CONNECTOR	[M]
CP1001	RJT029W002-1	SP CONNECTOR	[M]
CS301	RJS1A6805-J	CONNECTOR	[M]
CS302	RJS1A6805-J	CONNECTOR	[M]
CS702	RJS1A9423	FFC CONNECTOR	[M]
CS801	RJS1A9436	CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
CS1001	RJS1A5209	TO MAIN MOLEX	[M]
CS1301	RJP4G17ZA	4P CONNECTOR	[M]
CS8001	RJS1A9436	CONNECTOR	[M]
		COILS & TRANSFORMERS	
L2	RLQY30S1W	FM COIL	[M]
L3	RLV2C038-0	F. ANT	[M]
L4	RLD4Y45W	FM OSC COIL	[M]
L6	RL02B130-T	COIL	[M]

Ref No.	Part No.	Part Name & Description	Remarks
L7	RLQZP101KT-Y	AXIAL COIL	[M]
L8	RLQY30S1W	FM COIL	[M]
L10	RLQZPR22KT-Y	RF CHOKE C OIL	[M]
L301	RL08B003-K	BIAS OSC COIL	[M]
L302	RLQA470JT1-Y	COIL	[M]
L801	RLQA470JT1-Y	COIL	[M]
L1301	RLQB470KTA-Y	COIL	[M]
T1	RLI2B013-T	AM IFT	[M]
T901	RTP1U1C006-X	TRANSFORMER	[M] ⚠
		COMP COMBINATION	
Z301	EXBF7L355SYV	RADA RESISTOR	[M]
Z801	XAMR134	LAMP	[M]
Z971	EXBF7L355SYV	RADA RESISTOR	[M]
Z1001	RCDRPM6937	REMOTE SENSOR	[M]
		CERAMIC FILTERS	
CF1	RLFFETNL02AL	FM CF	[M]
CF3	RLFDFT20AL	FM DISCRIMINATOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		OSCILLATORS	
X2	RSXZ456KM01	19KHZ OSC	[M]
X3	RSXD7M20C01	CRYSTAL 7.2 MHZ	[M]
X701	RSXZ16M9M01T	CERAMIC OSC	[M]
X801	RSXZ6M00D01T	6MHZ RESONATOR	[M]
X802	RSXD32K0C01	CRYSTAL	[M]
		FUSES	
F901	XBA1C31NBAL	FUSE	[M] ⚠
F902	XBA1H31NBAL	FUSE	[M] ⚠
		FUSE HOLDERS	
FH901	RJR0169T	FUSE HOLDER	[M]
FH902	RJR0169T	FUSE HOLDER	[M]
		FUSE PROTECTORS	
FP601	RSFMB20KT-L	PROTECTOR	[M] ⚠
FP602	RSFMB15KT-L	FUSE PROTECTOR	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
		JACKS	
JK603	RJJ33T01	JK, TV4-CH	[M]
JK604	RJJ39T01	JK, PHONES	[M]
JK901	RJJ1SM02-1H	JK, AC INLET	[M] ⚠
		DISPLAY	
LCD801	RSL5210-L	LCD	[M]
		WIRES	
W901	RWJ8303410KK	PWR TO BATT WIRE	[M]
W902	RWJ8302175KK	BATT TO BATT WIRE	[M]
W981	RWJ0102050KR	MAIN-MECHA M/R WR	[M]
W1001	RWJ8203120KK	LED MAIN WIRE	[M]
CW790	REX0842	MAIN-CD V.	[M]
CW1301	REX0841	COBRA-MOTOR MAIN	[M]
PW601	RWJ8210150RR	MAIN-POWER WIRE	[M]
PW902	REX0935	MAIN TO POWER	[M]
PW1001	RWJ8209150XX	MAIN PANEL WIRE	[M]
PW6011	RWJ8210150RR	MAIN-POWER WIRE	[M]
PW9012	RJS1A5502	CABLE HOLDER	[M]

■ Resistors & Capacitors

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
- [M] in Remarks column indicates parts that are supplied by **MESA**.
- Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
- Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values & Remarks
	RESISTORS	
R2	ERDS2TJ103T	10K 1/4W [M]
R3	ERDS2TJ332T	3.3K 1/4W [M]
R4	ERDS2TJ472T	4.7K 1/4W [M]
R5	ERDS2TJ221T	220 1/4W [M]
R6	ERDS2TJ104T	100K 1/4W [M]
R7	ERDS2TJ682T	6.8K 1/4W [M]
R8	ERDS2TJ104T	100K 1/4W [M]
R9	ERDS2TJ104T	100K 1/4W [M]
R11	ERDS2TJ223T	22K 1/4W [M]
R12	ERDS2TJ103T	10K 1/4W [M]
R13	ERDS2TJ104T	100K 1/4W [M]
R14	ERDS2TJ104T	100K 1/4W [M]
R16	ERDS2TJ104T	100K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R17	ERDS2TJ222T	2.2K 1/4W [M]
R18	ERDS2TJ104T	100K 1/4W [M]
R19	ERDS2TJ104T	100K 1/4W [M]
R20	ERDS2TJ223T	22K 1/4W [M]
R21	ERDS2TJ103T	10K 1/4W [M]
R22	ERDS2TJ102T	1K 1/4W [M]
R23	ERDS2TJ223T	22K 1/4W [M]
R24	ERDS2TJ103T	10K 1/4W [M]
R25	ERDS2TJ223T	22K 1/4W [M]
R26	ERDS2TJ103T	10K 1/4W [M]
R27	ERDS2TJ332T	3.3K 1/4W [M]
R28	ERDS2TJ223T	22K 1/4W [M]
R29	ERDS2TJ103T	10K 1/4W [M]
R30	ERDS2TJ472T	4.7K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R31	ERDS2TJ222T	2.2K 1/4W [M]
R32	ERDS2TJ561T	560 1/4W [M]
R55	ERDS2TJ333T	33K 1/4W [M]
R91	ERDS2TJ101T	100 1/4W [M]
R101	ERDS2TJ101T	100 1/4W [M]
R102	ERDS2TJ822T	8.2K 1/4W [M]
R103	ERDS2TJ562T	5.6K 1/4W [M]
R104	ERDS2TJ104T	100K 1/4W [M]
R105	ERDS2TJ182T	1.8K 1/4W [M]
R106	ERDS2TJ332T	3.3K 1/4W [M]
R109	ERDS2TJ223T	22K 1/4W [M]
R110	ERDS2TJ222T	2.2K 1/4W [M]
R111	ERDS2TJ152T	1.5K 1/4W [M]
R201	ERDS2TJ101T	100 1/4W [M]

Ref No.	Part No.	Values & Remarks
R202	ERDS2TJ822T	8.2K 1/4W [M]
R203	ERDS2TJ562T	5.6K 1/4W [M]
R204	ERDS2TJ104T	100K 1/4W [M]
R205	ERDS2TJ182T	1.8K 1/4W [M]
R206	ERDS2TJ332T	3.3K 1/4W [M]
R209	ERDS2TJ223T	22K 1/4W [M]
R210	ERDS2TJ222T	2.2K 1/4W [M]
R211	ERDS2TJ152T	1.5K 1/4W [M]
R301	ERDS2TJ103T	10K 1/4W [M]
R302	ERDS2TJ152T	1.5K 1/4W [M]
R303	ERDS2TJ152T	1.5K 1/4W [M]
R305	ERDS2TJ103T	10K 1/4W [M]
R306	ERDS2TJ752T	7.5K 1/4W [M]
R307	ERDS2TJ822T	8.2K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R308	ERD2FCVJ4R7T	4.7 1/4W [M]
R309	ERDS2TJ472T	4.7K 1/4W [M]
R310	ERDS2TJ472T	4.7K 1/4W [M]
R311	ERDS2TJ472T	4.7K 1/4W [M]
R312	ERDS2TJ334T	330K 1/4W [M]
R313	ERDS2TJ123T	12K 1/4W [M]
R314	ERDS2TJ222T	2.2K 1/4W [M]
R315	ERDS2TJ102T	1K 1/4W [M]
R316	ERDS2TJ470T	47 1/4W [M]
R317	ERDS2TJ220T	22 1/4W [M]
R318	ERDS2TJ335T	3.3M 1/4W [M]
R319	ERDS2TJ104T	100K 1/4W [M]
R320	ERDS2TJ104T	100K 1/4W [M]
R321	ERDS2TJ104T	100K 1/4W [M]
R322	ERDS2TJ104T	100K 1/4W [M]
R323	ERDS2TJ273T	27K 1/4W [M]
R324	ERDS2TJ273T	27K 1/4W [M]
R325	ERDS2TJ471T	470 1/4W [M]
R326	ERDS2TJ103T	10K 1/4W [M]
R327	ERDS2TJ472T	4.7K 1/4W [M]
R328	ERDS2TJ103T	10K 1/4W [M]
R329	ERDS2TJ681T	680 1/4W [M]
R330	ERDS2TJ563T	56K 1/4W [M]
R331	ERDS2TJ104T	100K 1/4W [M]
R332	ERDS2TJ104T	100K 1/4W [M]
R333	ERDS2TJ103T	10K 1/4W [M]
R334	ERDS2TJ223T	22K 1/4W [M]
R335	ERDS2TJ470T	47 1/4W [M]
R336	ERDS2TJ563T	56K 1/4W [M]
R337	ERDS2TJ104T	100K 1/4W [M]
R349	ERDS2TJ224T	220K 1/4W [M]
R350	ERDS2TJ334T	330K 1/4W [M]
R355	ERDS2TJ153T	15K 1/4W [M]
R366	ERDS2TJ183T	18K 1/4W [M]
R368	ERDS2TJ220T	22 1/4W [M]
R369	ERDS2TJ334T	330K 1/4W [M]
R370	ERDS2TJ103T	10K 1/4W [M]
R371	ERDS2TJ102T	1K 1/4W [M]
R372	ERDS2TJ102T	1K 1/4W [M]
R373	ERDS2TJ102T	1K 1/4W [M]
R401	ERDS2TJ223T	22K 1/4W [M]
R402	ERDS2TJ272T	2.7K 1/4W [M]
R404	ERDS2TJ472T	4.7K 1/4W [M]
R405	ERDS2TJ122T	1.2K 1/4W [M]
R408	ERDS2TJ272T	2.7K 1/4W [M]
R410	ERDS2TJ682T	6.8K 1/4W [M]
R415	ERDS2TJ103T	10K 1/4W [M]
R417	ERDS2TJ273T	27K 1/4W [M]
R418	ERDS2TJ683T	68K 1/4W [M]
R419	ERDS2TJ391T	390 1/4W [M]
R421	ERDS2TJ223T	22K 1/4W [M]
R422	ERDS2TJ682T	6.8K 1/4W [M]
R425	ERDS2TJ472T	4.7K 1/4W [M]
R428	ERDS2TJ1R0T	1 1/4W [M]
R429	ERDS2TJ1R2T	1.2 1/4W [M]
R430	ERDS2TJ271T	270 1/4W [M]
R431	ERDS2TJ683T	68K 1/4W [M]
R432	ERDS2TJ103T	10K 1/4W [M]
R501	ERDS2TJ223T	22K 1/4W [M]
R502	ERDS2TJ272T	2.7K 1/4W [M]
R504	ERDS2TJ472T	4.7K 1/4W [M]
R505	ERDS2TJ122T	1.2K 1/4W [M]
R508	ERDS2TJ272T	2.7K 1/4W [M]
R510	ERDS2TJ682T	6.8K 1/4W [M]
R515	ERDS2TJ103T	10K 1/4W [M]
R517	ERDS2TJ273T	27K 1/4W [M]
R518	ERDS2TJ683T	68K 1/4W [M]
R519	ERDS2TJ391T	390 1/4W [M]
R521	ERDS2TJ223T	22K 1/4W [M]
R522	ERDS2TJ682T	6.8K 1/4W [M]
R525	ERDS2TJ472T	4.7K 1/4W [M]
R528	ERDS2TJ1R0T	1 1/4W [M]
R529	ERDS2TJ1R2T	1.2 1/4W [M]
R530	ERDS2TJ271T	270 1/4W [M]
R531	ERDS2TJ683T	68K 1/4W [M]
R532	ERDS2TJ103T	10K 1/4W [M]
R602	ERDS2TJ103T	10K 1/4W [M]
R603	ERDS2TJ103T	10K 1/4W [M]
R604	ERDS2TJ471T	470 1/4W [M]
R607	ERDS2TJ104T	100K 1/4W [M]
R608	ERDS2TJ273T	27K 1/4W [M]
R609	ERDS2TJ332T	3.3K 1/4W [M]
R610	ERDS2TJ273T	27K 1/4W [M]
R611	ERDS2TJ332T	3.3K 1/4W [M]
R612	ERDS2TJ1R5T	1.5 1/4W [M]
R613	ERDS2TJ1R5T	1.5 1/4W [M]
R615	ERDS2TJ331T	330 1/4W [M]
R616	ERD2FCVJ4R7T	4.7 1/4W [M]
R617	ERDS2TJ103T	10K 1/4W [M]
R619	ERDS2TJ151T	150 1/4W [M]
R620	ERDS2TJ151T	150 1/4W [M]
R621	ERDS2TJ471T	470 1/4W [M]
R622	ERDS2TJ151T	150 1/4W [M]
R624	ERDS2TJ331T	330 1/4W [M]
R625	ERDS2TJ471T	470 1/4W [M]
R626	ERDS2TJ681T	680 1/4W [M]
R627	ERDS2TJ474T	470K 1/4W [M]
R628	ERDS2TJ103T	10K 1/4W [M]
R629	ERDS2TJ271T	270 1/4W [M]
R630	ERDS2TJ393T	39K 1/4W [M]
R631	ERDS2TJ474T	470K 1/4W [M]
R632	ERDS2TJ681T	680 1/4W [M]
R633	ERDS2TJ330T	33 1/4W [M]
R634	ERDS2TJ330T	33 1/4W [M]
R635	ERDS2TJ222T	2.2K 1/4W [M]
R636	ERDS2TJ222T	2.2K 1/4W [M]
R637	ERDS2TJ472T	4.7K 1/4W [M]
R638	ERDS2TJ333T	33K 1/4W [M]
R639	ERDS2TJ151T	150 1/4W [M]
R640	ERDS2TJ472T	4.7K 1/4W [M]
R641	ERDS2TJ333T	33K 1/4W [M]
R645	ERDS2TJ471T	470 1/4W [M]
R646	ERDS2TJ333T	33K 1/4W [M]
R647	ERDS2TJ472T	4.7K 1/4W [M]
R648	ERDS2TJ103T	10K 1/4W [M]
R649	ERDS2TJ561T	560 1/4W [M]
R650	ERDS2TJ103T	10K 1/4W [M]
R652	ERDS2TJ472T	4.7K 1/4W [M]
R654	ERDS2TJ103T	10K 1/4W [M]
R655	ERDS2TJ103T	10K 1/4W [M]
R656	ERDS2TJ223T	22K 1/4W [M]
R657	ERDS2TJ223T	22K 1/4W [M]
R658	ERDS2TJ101T	100 1/4W [M]
R659	ERDS2TJ102T	1K 1/4W [M]
R660	ERDS2TJ103T	10K 1/4W [M]
R661	ERDS2TJ472T	4.7K 1/4W [M]
R662	ERDS2TJ105T	1M 1/4W [M]
R663	ERDS2TJ334T	330K 1/4W [M]
R665	ERDS2TJ104T	100K 1/4W [M]
R667	ERDS2TJ1R5T	1.5 1/4W [M]
R669	ERDS2TJ102T	1K 1/4W [M]
R670	ERDS2TJ102T	1K 1/4W [M]
R671	ERDS2TJ102T	1K 1/4W [M]
R672	ERDS2TJ102T	1K 1/4W [M]
R679	ERDS2TJ2R2T	2.2 1/4W [M]
R681	ERDS2TJ2R2T	2.2 1/4W [M]
R682	ERDS2TJ561T	560 1/4W [M]
R683	ERDS2TJ122T	1.2K 1/4W [M]
R685	ERDS2TJ101T	100 1/4W [M]
R687	ERDS2TJ123T	12K 1/4W [M]
R691	ERDS2TJ101T	100 1/4W [M]
R696	ERDS2TJ101T	100 1/4W [M]
R701	ERJ6GEYJ4R7A	4.7 1/10W [M]
R702	ERJ6GEYJ822A	8.2K 1/10W [M]
R704	ERJ6GEYJ102A	1K 1/10W [M]
R705	ERJ6GEYJ124A	120K 1/10W [M]
R706	ERJ6GEYJ102A	1K 1/10W [M]
R707	ERJ6GEYJ474A	470K 1/10W [M]
R708	ERJ6GEYJ154A	150K 1/10W [M]
R709	ERJ6GEYJ473A	47K 1/10W [M]
R710	ERJ6GEYJ103A	10K 1/10W [M]
R711	ERJ6GEYJ154A	150K 1/10W [M]
R712	ERJ6GEYJ221A	220 1/10W [M]
R715	ERJ6GEYJ122A	1.2K 1/10W [M]
R717	ERJ6GEYJ102A	1K 1/10W [M]
R718	ERJ6GEYJ102A	1K 1/10W [M]
R719	ERJ6GEYJ102A	1K 1/10W [M]
R720	ERJ6GEYJ102A	1K 1/10W [M]
R721	ERJ6GEYJ101A	100 1/10W [M]
R723	ERJ6GEYJ272A	2.7K 1/10W [M]
R724	ERJ6GEYJ333A	33K 1/10W [M]
R725	ERJ6GEYJ122A	1.2K 1/10W [M]
R727	ERJ6GEYJ682A	6.8K 1/10W [M]
R728	ERJ6GEYJ682A	6.8K 1/10W [M]
R729	ERJ6GEYJ562A	5.6K 1/10W [M]
R731	ERJ6GEYJ123A	12K 1/10W [M]
R734	ERJ6GEYJ101A	100 1/10W [M]
R735	ERJ6GEYJ101A	100 1/10W [M]
R736	ERJ6GEYJ101A	100 1/10W [M]
R738	ERJ6GEYJ223A	22K 1/10W [M]
R741	ERJ6GEYJ562A	5.6K 1/10W [M]
R742	ERJ6GEYJ562A	5.6K 1/10W [M]
R743	ERJ6GEYJ562A	5.6K 1/10W [M]
R744	ERJ6GEYJ104A	100K 1/10W [M]
R745	ERJ6GEYJ155A	1.5M 1/10W [M]
R748	ERJ6GEYJ272A	2.7K 1/10W [M]
R749	ERJ6GEYJ682A	6.8K 1/10W [M]
R752	ERJ8GEYJ220A	22 1/8W [M]
R770	ERJ6GEYJ224A	220K 1/10W [M]
R801	ERDS2TJ332T	3.3K 1/4W [M]
R802	ERDS2TJ332T	3.3K 1/4W [M]
R803	ERDS2TJ223T	22K 1/4W [M]
R804	ERDS2TJ823T	82K 1/4W [M]
R805	ERDS2TJ124T	120K 1/4W [M]
R806	ERDS2TJ104T	100K 1/4W [M]
R807	ERDS2TJ105T	1M 1/4W [M]
R809	ERDS2TJ334T	330K 1/4W [M]
R812	ERDS2TJ472T	4.7K 1/4W [M]
R813	ERDS2TJ472T	4.7K 1/4W [M]
R814	ERDS2TJ472T	4.7K 1/4W [M]
R815	ERDS2TJ472T	4.7K 1/4W [M]
R816	ERDS2TJ472T	4.7K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R817	ERDS2TJ472T	4.7K 1/4W [M]
R818	ERDS2TJ472T	4.7K 1/4W [M]
R819	ERDS2TJ124T	120K 1/4W [M]
R820	ERDS2TJ472T	4.7K 1/4W [M]
R821	ERDS2TJ223T	22K 1/4W [M]
R822	ERDS2TJ562T	5.6K 1/4W [M]
R823	ERDS2TJ472T	4.7K 1/4W [M]
R824	ERDS2TJ472T	4.7K 1/4W [M]
R825	ERDS2TJ472T	4.7K 1/4W [M]
R826	ERDS2TJ474T	470K 1/4W [M]
R827	ERDS2TJ104T	100K 1/4W [M]
R828	ERDS2TJ102T	1K 1/4W [M]
R831	ERDS2TJ102T	1K 1/4W [M]
R832	ERDS2TJ102T	1K 1/4W [M]
R833	ERDS2TJ102T	1K 1/4W [M]
R834	ERDS2TJ102T	1K 1/4W [M]
R835	ERDS2TJ103T	10K 1/4W [M]
R837	ERDS2TJ333T	33K 1/4W [M]
R838	ERDS2TJ102T	1K 1/4W [M]
R841	ERDS2TJ472T	4.7K 1/4W [M]
R847	ERDS2TJ122T	1.2K 1/4W [M]
R848	ERDS2TG103T	10K 1/4W [M]
R856	ERDS2TG103T	10K 1/4W [M]
R857	ERDS2TG103T	10K 1/4W [M]
R859	ERDS2TJ102T	1K 1/4W [M]
R860	ERDS2TJ102T	1K 1/4W [M]
R861	ERDS2TJ122T	1.2K 1/4W [M]
R862	ERDS2TJ182T	1.8K 1/4W [M]
R863	ERDS2TJ222T	2.2K 1/4W [M]
R864	ERDS2TJ272T	2.7K 1/4W [M]
R865	ERDS2TJ392T	3.9K 1/4W [M]
R866	ERDS2TJ682T	6.8K 1/4W [M]
R867	ERDS2TJ103T	10K 1/4W [M]
R868	ERDS2TJ183T	18K 1/4W [M]
R952	ERDS2TJ821T	820 1/4W [M]
R953	ERDS2TJ393T	39K 1/4W [M]
R972	ERDS2TJ821T	820 1/4W [M]
R973	ERDS2TJ393T	39K 1/4W [M]
R1001	ERDS2TJ102T	1K 1/4W [M]
R1002	ERDS2TJ102T	1K 1/4W [M]
R1003	ERDS2TJ122T	1.2K 1/4W [M]
R1004	ERDS2TJ182T	1.8K 1/4W [M]
R1005	ERDS2TJ222T	2.2K 1/4W [M]
R1006	ERDS2TJ272T	2.7K 1/4W [M]
R1007	ERDS2TJ392T	3.9K 1/4W [M]
R1008	ERDS2TJ682T	6.8K 1/4W [M]
R1009	ERDS2TJ103T	10K 1/4W [M]
R1010	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R1011	ERDS2TJ102T	1K 1/4W [M]
R1012	ERDS2TJ122T	1.2K 1/4W [M]
R1013	ERDS2TJ182T	1.8K 1/4W [M]
R1014	ERDS2TJ222T	2.2K 1/4W [M]
R1015	ERDS2TJ272T	2.7K 1/4W [M]
R1102	ERDS2TJ102T	1K 1/4W [M]
R1107	ERDS2TJ472T	4.7K 1/4W [M]
R1108	ERDS2TJ471T	470 1/4W [M]
R1109	ERDS2TJ103T	10K 1/4W [M]
R1110	ERDS2TJ102T	1K 1/4W [M]
R1111	ERDS2TJ182T	1.8K 1/4W [M]
R1112	ERDS2TJ103T	10K 1/4W [M]
R1113	ERDS2TJ102T	1K 1/4W [M]
R1114	ERDS2TJ102T	1K 1/4W [M]
R1115	ERDS2TJ102T	1K 1/4W [M]
R1118	ERDS2TJ103T	10K 1/4W [M]
R1119	ERDS2TJ472T	4.7K 1/4W [M]
R1120	ERDS2TJ102T	1K 1/4W [M]
	CAPACITORS	
C1	ECBT1H470J5	47P 50V [M]
C2	ECBT1H100JC5	10P 50V [M]
C3	ECFR1C223MR	0.022 16V [M]
C4	ECBT1H102KB5	1000P50V [M]
C5	ECBT1H5R6KC5	5.6P 50V [M]
C6	ECBT1H102KB5	1000P50V [M]
C7	ECBT1H120JC5	12P 50V [M]
C8	ECBT1H102KB5	1000P50V [M]
C9	ECBT1H102KB5	1000P50V [M]
C10	ECBT1H100JC5	10P 50V [M]
C12	ECBT1H331KB5	330P 50V [M]
C13	ECEA1CKA100B	10 16V [M]
C14	ECBT1H102KB5	1000P50V [M]
C15	ECFR1C683MR	0.068 16V [M]
C16	ECFR1C823MR	0.082 16V [M]
C17	ECFR1C823MR	0.082 16V [M]
C18	ECFR1C333MR	0.033 16V [M]
C19	ECFR1C333MR	0.033 16V [M]
C20	ECEA1HKA010B	1 50V [M]
C21	ECEA1HKA010B	1 50V [M]
C22	ECEA1EKA4R7B	4.7 25V [M]
C23	ECFR1C333MR	0.033 16V [M]
C24	ECFR1C333MR	0.033 16V [M]
C30	ECBT1H331KB5	330P 50V [M]
C31	ECBT1C103MS5	0.01 16V [M]
C32	ECBT1H102KB5	1000P50V [M]
C33	ECBT1H102KB5	1000P50V [M]
C34	ECBT1H102KB5	1000P50V [M]

Ref No.	Part No.	Values & Remarks
C35	ECEA1AKA101B	100 10V [M]
C36	ECA1EM101B	100 25V [M]
C37	ECBT1C103MS5	0.01 16V [M]
C38	ECBT1H101KB5	100P 50V [M]
C39	ECBT1H120JC5	12P 50V [M]
C40	ECBT1C222MR5	2200P16V [M]
C41	ECBT1H101KB5	100P 50V [M]
C42	ECBT1H180JC5	18P 50V [M]
C43	ECBT1H101KB5	100P 50V [M]
C44	ECEA1HKA2R2B	2.2 50V [M]
C45	ECBT1H102KB5	1000P50V [M]
C47	ECFR1C223MR	0.022 16V [M]
C48	ECEA1HKA010B	1 50V [M]
C49	ECBT1H102KB5	1000P50V [M]
C50	ECBT1H102KB5	1000P50V [M]
C51	ECFR1C333MR	0.033 16V [M]
C53	ECBT1H102KB5	1000P50V [M]
C54	ECBT1H102KB5	1000P50V [M]
C55	ECEA1CKA100B	10 16V [M]
C92	ECBT1H331KB5	330P 50V [M]
C94	ECBT1H102KB5	1000P50V [M]
C95	ECBT1H102KB5	1000P50V [M]
C96	ECBT1H102KB5	1000P50V [M]
C98	ECBT1H331KB5	330P 50V [M]
C101	ECBT1H471KB5	470P 50V [M]
C102	ECBT1H471KB5	470P 50V [M]
C103	ECEA0JKA470B	47 6.3V [M]
C104	ECFR1C183KR	0.018 16V [M]
C105	ECEA1EKA4R7B	4.7 25V [M]
C106	ECBT1H471KB5	470P 50V [M]
C107	ECEA1HKA010B	1 50V [M]
C108	ECEA1HKA010B	1 50V [M]
C109	ECEA1EKA4R7B	4.7 25V [M]
C110	ECEA1EKA4R7B	4.7 25V [M]
C111	ECBT1H331KB5	330P 50V [M]
C201	ECBT1H471KB5	470P 50V [M]
C202	ECBT1H471KB5	470P 50V [M]
C203	ECEA0JKA470B	47 6.3V [M]
C204	ECFR1C183KR	0.018 16V [M]
C205	ECEA1EKA4R7B	4.7 25V [M]
C206	ECBT1H471KB5	470P 50V [M]
C207	ECEA1HKA010B	1 50V [M]
C208	ECEA1HKA010B	1 50V [M]
C209	ECEA1EKA4R7B	4.7 25V [M]
C210	ECEA1EKA4R7B	4.7 25V [M]
C211	ECBT1H331KB5	330P 50V [M]
C301	ECEA1HN2R2SB	2.2 50V [M]
C303	ECBT1C103MS5	0.01 16V [M]

Ref No.	Part No.	Values & Remarks
C305	ECQP2A821JZT	820P 100V[M]
C306	ECQP2A472JZT	4700P100V[M]
C307	ECEA1HKA010B	1 50V [M]
C308	ECA1AM101B	100 10V [M]
C309	ECQV1H473JZ3	0.047 50V [M]
C310	ECBT1H102KB5	1000P50V [M]
C311	ECBT1H102KB5	1000P50V [M]
C312	ECBT1C222MR5	2200P16V [M]
C313	ECBT1C222MR5	2200P16V [M]
C314	ECBT1C332MR5	3300P16V [M]
C315	ECEA0JKA470B	47 6.3V [M]
C317	ECEA1CKA100B	10 16V [M]
C318	ECFR1C473MR	0.047 16V [M]
C319	ECEA1HKA0R1B	0.1 50V [M]
C320	ECEA1AKA470B	47 10V [M]
C321	ECEA1AKA101B	100 10V [M]
C322	ECEA1CKA100B	10 16V [M]
C323	ECEA0JKA470B	47 6.3V [M]
C324	ECEA1HKA0R1B	0.1 50V [M]
C327	ECBT1H221KB5	220P 50V [M]
C329	ECEA1AKA470B	47 10V [M]
C330	ECEA1AKA221Q	220 10V [M]
C334	ECEA1CKA100B	10 16V [M]
C338	ECFR1C223MR	0.022 16V [M]
C401	ECBT1H221KB5	220P 50V [M]
C402	ECEA1CKA100B	10 16V [M]
C403	ECEA1CKA100B	10 16V [M]
C404	ECEA1HKAR22B	0.22 50V [M]
C405	ECFR1C333MR	0.033 16V [M]
C406	ECBT0J223MS5	0.022 6.3V [M]
C408	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H221KB5	220P 50V [M]
C416	ECBT1H470J5	47P 50V [M]
C419	ECFR1C683MR	0.068 16V [M]
C421	ECBT1H153KB5	0.015 50V [M]
C422	ECBT0J153MS5	0.015 6.3V [M]
C428	ECBT1H471KB5	470P 50V [M]
C430	ECA1AM101B	100 10V [M]
C431	ECBT1H471KB5	470P 50V [M]
C432	ECA1AM101B	100 10V [M]
C433	ECA1AM471B	470 10V [M]
C434	ECQV1H224JZ3	0.22 50V [M]
C435	ECEA1HKA010B	1 50V [M]
C436	ECBT1H102KB5	1000P50V [M]
C438	ECEA1CKA100B	10 16V [M]
C439	ECFR1C333MR	0.033 16V [M]
C501	ECBT1H221KB5	220P 50V [M]
C502	ECEA1CKA100B	10 16V [M]

Ref No.	Part No.	Values & Remarks
C503	ECEA1CKA100B	10 16V [M]
C504	ECEA1HKAR22B	0.22 50V [M]
C505	ECFR1C333MR	0.033 16V [M]
C506	ECBT0J223MS5	0.022 6.3V [M]
C508	ECBT1H101KB5	100P 50V [M]
C512	ECBT1H221KB5	220P 50V [M]
C516	ECBT1H470J5	47P 50V [M]
C519	ECFR1C683MR	0.068 16V [M]
C521	ECBT1H153KB5	0.015 50V [M]
C522	ECBT0J153MS5	0.015 6.3V [M]
C528	ECBT1H471KB5	470P 50V [M]
C530	ECA1AM101B	100 10V [M]
C531	ECBT1H471KB5	470P 50V [M]
C532	ECA1AM101B	100 10V [M]
C533	ECA1AM471B	470 10V [M]
C534	ECQV1H224JZ3	0.22 50V [M]
C535	ECEA1HKA010B	1 50V [M]
C536	ECBT1H102KB5	1000P50V [M]
C538	ECEA1CKA100B	10 16V [M]
C539	ECFR1C333MR	0.033 16V [M]
C605	ECEA1HKAR22B	0.22 50V [M]
C606	ECBT1H102KB5	1000P50V [M]
C607	ECEA1CKA100B	10 16V [M]
C610	ECA1CM101B	100 16V [M]
C611	ECBT1H221KB5	220P 50V [M]
C612	ECA1AM101B	100 10V [M]
C613	ECBT1H471KB5	470P 50V [M]
C614	ECA1AM101B	100 10V [M]
C615	ECEA0JKA220B	22 6.3V [M]
C616	ECA1EM332E	3300 25V [M] ⚠
C617	ECEA1HKA010B	1 50V [M]
C619	ECEA1CKA100B	10 16V [M]
C620	ECEA1CKA100B	10 16V [M]
C621	ECEA1CKA100B	10 16V [M]
C622	ECEA1CKA100B	10 16V [M]
C624	ECBT1H221KB5	220P 50V [M]
C625	ECBT1H221KB5	220P 50V [M]
C627	ECA1AM101B	100 10V [M]
C628	ECEA1CKA100B	10 16V [M]
C629	ECBT1H102KB5	1000P50V [M]
C630	ECBT1H221KB5	220P 50V [M]
C642	ECEA0JKA220B	22 6.3V [M]
C643	ECA1EM331B	330 25V [M]
C644	ECEA1HKAR22B	0.22 50V [M]
C645	ECFR1C473MR	0.047 16V [M]
C646	ECBT1H471KB5	470P 50V [M]
C647	ECA1AM101B	100 10V [M]
C649	ECA1AM101B	100 10V [M]

Ref No.	Part No.	Values & Remarks
C650	ECA1AM101B	100 10V [M]
C651	ECEA1HKA010B	1 50V [M]
C652	ECQV1H224JZ3	0.22 50V [M]
C653	ECQV1H224JZ3	0.22 50V [M]
C654	ECA1VM331B	330 35V [M]
C656	ECEA1HKA010B	1 50V [M]
C657	ECEA1CKA100B	10 16V [M]
C659	ECA1AM101B	100 10V [M]
C660	ECBT1H104KB5	0.1 50V [M]
C661	ECBT1H104KB5	0.1 50V [M]
C701	ECEA0JKA330I	33 6.3V [M]
C702	ECUZ1E104MBN	0.1 25V [M]
C703	ECEA0JKA101I	100 6.3V [M]
C704	ECUZ1E104MBN	0.1 25V [M]
C706	ECUZ1H272KBN	2700P50V [M]
C707	ECUZ1E273KBN	0.027 25V [M]
C710	ECUV1H151KCN	150P 50V [M]
C711	ECUZ1E104ZFN	0.1 25V [M]
C712	ECUZ1E104ZFN	0.1 25V [M]
C713	ECUZ1E104MBN	0.1 25V [M]
C714	ECEA0JKA101I	100 6.3V [M]
C715	ECUZ1H182KBN	1800P50V [M]
C716	ECUZ1H821KBN	820P 50V [M]
C717	ECUZ1E104ZFN	0.1 25V [M]
C718	ECUZ1C224KBN	0.22 16V [M]
C721	ECUZ1H150JCN	15P 50V [M]
C722	ECUZ1H150JCN	15P 50V [M]
C723	ECEA1AKA221I	220 10V [M]
C724	ECUZ1E104MBN	0.1 25V [M]
C725	ECUZ1H102KBN	1000P50V [M]
C726	ECUZ1H102KBN	1000P50V [M]
C727	ECA1HAK010XI	1 50V [M]
C728	ECA1HAK010XI	1 50V [M]
C730	ECUZ1E104ZFN	0.1 25V [M]
C731	ECEA0JKA221I	220 6.3V [M]
C732	ECEA0JKA221I	220 6.3V [M]
C733	ECUZ1E104MBN	0.1 25V [M]
C734	ECEA1AKA221I	220 10V [M]
C735	ECUZ1E104ZFN	0.1 25V [M]
C736	ECUZ1E104ZFN	0.1 25V [M]
C737	ECUZ1E104ZFN	0.1 25V [M]
C738	ECUZ1E104MBN	0.1 25V [M]
C739	ECUZ1H103KBN	0.01 50V [M]
C742	ECUZ1E273KBN	0.027 25V [M]
C743	ECUZ1E104ZFN	0.1 25V [M]
C744	ECUZ1E123KBN	0.012 25V [M]
C745	ECUZ1C473KBN	0.047 16V [M]
C747	ECUV1H221KBN	220P 50V [M]

Ref No.	Part No.	Values & Remarks
C749	ECUZ1H222KBN	2200P50V [M]
C750	ECUZ1E104MBN	0.1 25V [M]
C751	ECUZ1E104MBN	0.1 25V [M]
C752	ECUZ1H102KBN	1000P50V [M]
C753	ECUZ1H471KBM	470P 50V [M]
C754	ECUZ1H471KBN	470P 50V [M]
C761	ECUZ1H471KBN	470P 50V [M]
C762	ECUZ1H471KBN	470P 50V [M]
C790	ECA1AKF820E	82 10V [M]
C801	ECBT1H102KB5	1000P50V [M]
C802	ECBT1H102KB5	1000P50V [M]
C803	ECBT1H102KB5	1000P50V [M]
C804	ECEA0JKS101B	100 6.3V [M]
C805	ECBT1H102KB5	1000P50V [M]
C806	ECBT1C103MS5	0.01 16V [M]
C807	ECBT1H390J5	39P 50V [M]
C808	ECBT1H470J5	47P 50V [M]
C809	ECBT1H220JC5	22P 50V [M]
C810	ECBT1H560J5	56P 50V [M]
C812	ECBT1C103MS5	0.01 16V [M]
C813	ECBT1H180JC5	18P 50V [M]
C814	ECBT1H220JC5	22P 50V [M]
C815	ECBT1H561KB5	560P 50V [M]
C816	ECBT1H561KB5	560P 50V [M]
C817	ECBT1H561KB5	560P 50V [M]
C818	ECBT1H561KB5	560P 50V [M]
C821	ECEA0JKA470B	47 6.3V [M]
C822	ECBT1H561KB5	560P 50V [M]
C823	ECBT1H561KB5	560P 50V [M]
C824	ECBT1H102KB5	1000P50V [M]
C827	ECBT1H561KB5	560P 50V [M]
C828	ECBT1H561KB5	560P 50V [M]
C832	ECBT1H221KB5	220P 50V [M]
C834	ECBT1H221KB5	220P 50V [M]
C901	ECKR1H103ZF5	0.01 50V [M]
C902	ECKR1H103ZF5	0.01 50V [M]
C903	ECKR1H103ZF5	0.01 50V [M]
C904	ECKR1H103ZF5	0.01 50V [M]
C1301	ECEA1CU100	10 16V [M]
	CHIP JUMPERS	
RJ701	ERJ6GEY0R00A	0 1/10W [M]
RJ702	ERJ8GEY0R00A	0 1/8W [M]
RJ703	ERJ8GEY0R00A	0 1/8W [M]
RJ704	ERJ8GEY0R00A	0 1/8W [M]
RJ705	ERJ8GEY0R00A	0 1/8W [M]
RJ706	ERJ8GEY0R00A	0 1/8W [M]

Ref No.	Part No.	Values & Remarks
RJ707	ERJ8GEY0R00A	0 1/8W [M]
RJ708	ERJ8GEY0R00A	0 1/8W [M]
RJ709	ERJ8GEY0R00A	0 1/8W [M]
RJ710	ERJ8GEY0R00A	0 1/8W [M]
RJ721	ERJ6GEY0R00A	0 1/10W [M]
RJ722	ERJ6GEY0R00A	0 1/10W [M]
RJ723	ERJ6GEY0R00A	0 1/10W [M]
RJ724	ERJ6GEY0R00A	0 1/10W [M]
RJ725	ERJ6GEY0R00A	0 1/10W [M]
RJ726	ERJ6GEY0R00A	0 1/10W [M]
RJ727	ERJ6GEY0R00A	0 1/10W [M]
RJ728	ERJ6GEY0R00A	0 1/10W [M]
RJ750	ERJ6GEY0R00A	0 1/10W [M]
	TEST JUMPERS	
TJ701	EYF8CU	TESTJUMPER [M]

■ Packing Materials & Accessories

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
* [M] indicates in the Remarks columns indicates parts supplied by MESA.
* Remote Control Unit : Supply period for three years from terminal of production.
* Reference for O/I book languages are as follows :

Ar :	Arabic	Cf :	Canadian French	Ch :	Chinese	Cz :	Czech	Da :	Danish
Du :	Dutch	En :	English	Fr :	French	Ge :	German	It :	Italian
Ko :	Korean	Po :	Polish	Ru :	Russian	Sp :	Spanish	Sw :	Swedish

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG4082	PACKING CASE	[M]
P2	RPH0177	MIRAMAT SHEET	[M]
P3	RPN1141	POLYFOAM	[M]

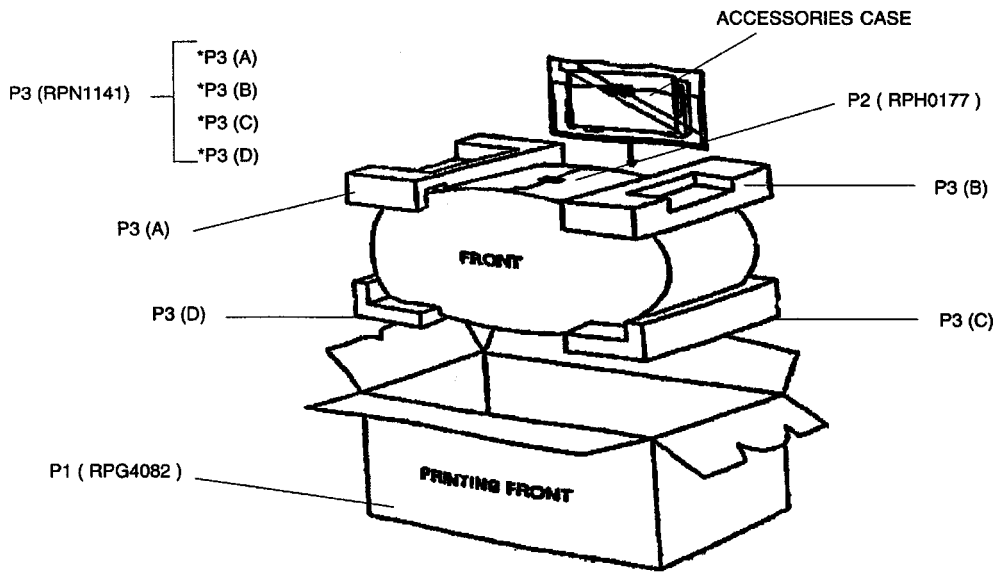
Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	EUR644861	REMOTE CONTROL	[M]
A1-1	UR64EC1822H	R/C BATTERY COVER	[M]
A2	RJA0065-A	AC CORD	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
A3	RQT4598-Y	O/I BOOK (En/Cf)	[M]

■ Packaging

ACCESSORIES

A1 (EUR644861) : REMOTE CONTROL
A2 (RJA0065-A) : AC CORD
A3 (RQT4598-Y) : O/I BOOK



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